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|-------------------------|-------------------------------------|
| Division | : Worldwide Development |
| Information Type | : Reporting and Analysis Plan (RAP) |

| | |
|------------------------|--|
| Title | : Reporting and Analysis Plan Amendment 1 for An Open-label, Randomized, Single dose, Crossover, Pivotal Bioequivalence Study of Fixed-dose Combination Tablets of Dolutegravir and Lamivudine versus Dolutegravir and Lamivudine single entities and Food Effect Assessment in Healthy Volunteers |
| Compound Number | : GSK3515864 (GSK1349572+GR109714) |
| Effective Date | : 28-AUG-2017 |

Description :

- The purpose of this RAP is to describe the planned analyses and output to be included in the Clinical Study Report for Protocol 204994
- This RAP is intended to describe the safety, pharmacokinetics (PK), and tolerability analyses required for the study.
- This version of the RAP includes amendment 1 to the originally approved RAP.
- This RAP will be provided to the study team members to convey the content of the Statistical Analysis Complete (SAC) deliverable.

Author's Name and Functional Area:

| | |
|------------------------------------|-------------|
| PPD (Clinical Statistics, PAREXEL) | 22-AUG-2017 |
|------------------------------------|-------------|

The Clinical Statistician (or designee) will give final approval:

| | |
|--------------------------------|-------------|
| PPD (Clinical Statistics, GSK) | 23-AUG-2017 |
|--------------------------------|-------------|

Revision Chronology

| Date | Version |
|---|-----------------|
| 26-JUL-2017 | Original |
| 28-AUG-2017 | Amendment No. 1 |
| Amendment 1 provides clarity that a similar preliminary PK analysis as was conducted following Part 1, will also be performed for Part 2. | |

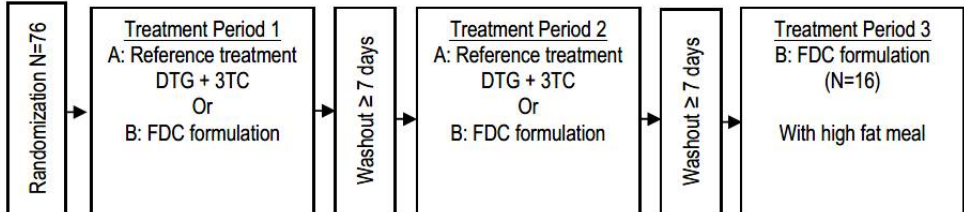
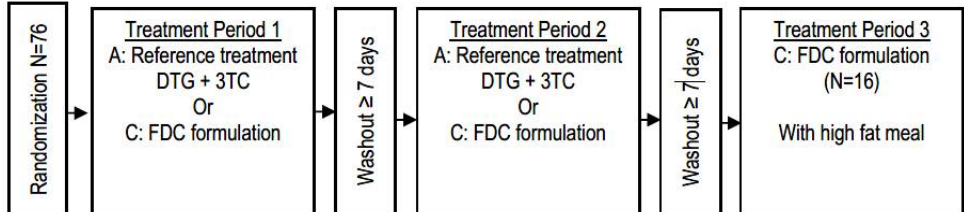
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1. REPORTING & ANALYSIS PLAN SYNOPSIS

| Overview | Key Elements of the Reporting and Analysis Plan |
|-------------------|---|
| Purpose | The purpose of this reporting and analysis plan (RAP) is to describe the planned analyses and output to be included in the Clinical Pharmacology Study Report for Protocol 204994 |
| Protocol | This RAP is based on the original protocol (Dated: 12-JAN-2017) of study GSK204994 (GSK Document No.: 2016N286215_00) and protocol amendment 1 (Dated: 07-FEB-2017) of study GSK204994 (GSK Document No.: 2016N286215_01) |
| Primary Objective | To evaluate the bioequivalence (BE) of fixed-dose combination (FDC) tablet formulation(s) of DTG 50 mg and 3TC 300 mg versus co-administration of the separate tablet formulations of DTG 50 mg plus 3TC 300 mg, in the fasted state. |
| Primary Endpoint | Plasma DTG and 3TC AUC _(0-∞) , AUC _(0-t) , and C _{max} . |
| Study Design | <p>This is a single-center, open-label, randomized, two-part study (if Part 2 is conducted)</p> <p>Part 1, Bioequivalence and Food Effect (FD) with Monolayer FDC Tablet Part 1 of the study will be a randomized, open-label, 2-period, single-dose, crossover study in 76 healthy adult subjects to achieve at least 70 evaluable subjects. The first 16 subjects who complete the first two treatment periods, and consent to continue, will return for a third treatment period and receive a single dose of the FDC tablet formulation administered with a high fat meal.</p>  <pre> graph LR A[Randomization N=76] --> B["Treatment Period 1 A: Reference treatment DTG + 3TC Or B: FDC formulation"] B --> C[Washout ≥ 7 days] C --> D["Treatment Period 2 A: Reference treatment DTG + 3TC Or B: FDC formulation"] D --> E[Washout ≥ 7 days] E --> F["Treatment Period 3 B: FDC formulation (N=16) With high fat meal"] </pre> <p>Part 2, Bioequivalence and Food Effect with Bilayer FDC Tablet Part 2 of the study, incorporating the bilayer FDC formulation, will only be conducted if a suitable formulation is available. Part 2 of the study will be conducted, similarly to Part 1.</p>  <pre> graph LR A[Randomization N=76] --> B["Treatment Period 1 A: Reference treatment DTG + 3TC Or C: FDC formulation"] B --> C[Washout ≥ 7 days] C --> D["Treatment Period 2 A: Reference treatment DTG + 3TC Or C: FDC formulation"] D --> E[Washout ≥ 7 days] E --> F["Treatment Period 3 C: FDC formulation (N=16) With high fat meal"] </pre> |
| Planned Analyses | <ul style="list-style-type: none"> Interim analyses are detailed within Section 3.1. The final planned analyses will be performed after the completion of the study and final datasets authorization, i.e. when database freeze |

| Overview | Key Elements of the Reporting and Analysis Plan |
|---------------------|---|
| | (DBF) is declared. |
| Analysis Population | <ul style="list-style-type: none"> • Screening Population • Safety Population • PK Plasma Concentration Population • PK Parameter BE Summary Population • PK Parameter FD Summary Population |
| Hypothesis | <p>The first two treatment periods of each part of this study are designed to test the BE of FDC tablets of DTG and 3TC (test treatment) relative to co-administered DTG plus 3TC (reference treatment) all under fasting condition:</p> <ul style="list-style-type: none"> • $H(0): \mu(\text{test})/\mu(\text{reference}) < 0.800$ or $\mu(\text{test})/\mu(\text{reference}) > 1.250$, i.e., treatments are not bioequivalent. <p>Versus</p> <ul style="list-style-type: none"> • $H(1): 0.800 \leq \mu(\text{test})/\mu(\text{reference}) \leq 1.250$ i.e., treatments are bioequivalent. <p>Food Effect: No formal hypothesis will be tested and an estimation approach will be used to evaluate the effect of food on the FDC tablet(s).</p> |
| Primary Analyses | Following log _e -transformation, AUC _(0-∞) , AUC _(0-t) , C _{max} from the first two treatment periods for BE will be separately analyzed for each analyte using a mixed effects model. Point estimates and their associated 90% confidence intervals (CIs) will be provided for the ratios of PK parameters between test and reference treatments on the original scale. |
| Secondary Analyses | <ul style="list-style-type: none"> • PK data will be presented in graphical and/or tabular form and will be summarized descriptively. • Following log_e-transformation, AUC₍₀₋₂₄₎, C₂₄, CL/F and t_{1/2} from the first two treatment periods for BE, and AUC_(0-∞), AUC_(0-t), C_{max}, CL/F, AUC₍₀₋₂₄₎, C₂₄, t_{1/2} from the third treatment period (food effect) will be analysed similarly using a mixed effects model. • T_{max} and t_{lag} of DTG and 3TC will be separately analyzed with the non-parametric Wilcoxon matched pair method to compute point estimates and associated 90% CIs for the median differences. • Safety data will be presented in tabular format and summarized descriptively according to GSK's Integrated Data Standards Library (IDSL) standards. No formal statistical analysis of the safety data will be conducted. |

2. SUMMARY OF KEY PROTOCOL INFORMATION

2.1. Changes to the Protocol Defined Statistical Analysis Plan

Except for the addition of a similar preliminary PK analysis for Part 2 as was conducted for Part 1, there were no changes or deviations to the originally planned statistical analysis specified in the protocol amendment 1 [Dated: 07-FEB-2017].

2.2. Study Objective(s) and Endpoint(s)

| Objectives | Endpoints |
|---|---|
| Primary Objectives | Primary Endpoints |
| To evaluate the bioequivalence of FDC tablet formulation(s) of DTG 50 mg and 3TC 300 mg versus co-administration of the separate tablet formulations of DTG 50 mg plus 3TC 300 mg, in the fasted state. | Plasma DTG and 3TC $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, and C_{max} . |
| Secondary Objectives | Secondary Endpoints |
| <ul style="list-style-type: none"> To characterize the PK profile of single dose of FDC tablet formulation(s) of DTG 50 mg and 3TC 300 mg versus co-administration of the separate tablet formulations of DTG 50 mg plus 3TC 300 mg, in the fasted state To evaluate the food effect on FDC tablet formulation(s) of DTG 50 mg and 3TC 300 mg To assess the safety and tolerability from single dose administration of the combination of DTG 50 mg, 3TC 300 mg in healthy volunteers either fasted or with a high fat meal. | <ul style="list-style-type: none"> Plasma DTG and 3TC t_{lag}, t_{max}, t, $t_{1/2}$, λ_z, $\%AUC_{ex}$, $AUC_{(0-24)}$, CL/F and V_z/F, C_t, and C_{24} Plasma DTG and 3TC $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, C_{max}, t_{lag}, t_{max}, t, $t_{1/2}$, λ_z, $\%AUC_{ex}$, $AUC_{(0-24)}$, CL/F and V_z/F, C_t, and C_{24}. Safety and tolerability parameters as assessed by change from baseline in vital signs (BP and HR), number of subjects with adverse events and toxicity grading of clinical laboratory tests |

$AUC_{(0-t)}$ = area under the plasma concentration time curve from time zero to the last quantifiable time point

$AUC_{(0-\infty)}$ = area under the plasma concentration time curve from time zero to infinity

$AUC_{(0-24)}$ = area under the plasma concentration time curve from time zero to 24 hours

$\%AUC_{ex}$ = % of $AUC_{(0-\infty)}$ that was extrapolated

C_{max} = maximum observed concentration

t_{max} = time of maximum observed concentration

C_{24} = concentration at 24h post-dose

C_t = last quantifiable concentration

PK = Pharmacokinetic

t = time of last quantifiable concentration

t_{lag} = absorption lag time

λ_z = apparent elimination rate constant

$t_{1/2}$ = the elimination half-life

CL/F = apparent oral clearance

V_z/F = apparent oral volume of distribution

2.3. Study Design

| Overview of Study Design and Key Features | |
|---|---|
| <p>Part 1, Bioequivalence and Food Effect with Monolayer FDC Tablet</p> <pre> graph LR R1[Randomization N=76] --> TP1[Treatment Period 1 A: Reference treatment DTG + 3TC Or B: FDC formulation] TP1 --> W1[Washout ≥ 7 days] W1 --> TP2[Treatment Period 2 A: Reference treatment DTG + 3TC Or B: FDC formulation] TP2 --> W2[Washout ≥ 7 days] W2 --> TP3[Treatment Period 3 B: FDC formulation (N=16) With high fat meal] </pre> <p>Part 2, Bioequivalence and Food Effect with Bilayer FDC Tablet</p> <pre> graph LR R2[Randomization N=76] --> TP1[Treatment Period 1 A: Reference treatment DTG + 3TC Or C: FDC formulation] TP1 --> W1[Washout ≥ 7 days] W1 --> TP2[Treatment Period 2 A: Reference treatment DTG + 3TC Or C: FDC formulation] TP2 --> W2[Washout ≥ 7 days] W2 --> TP3[Treatment Period 3 C: FDC formulation (N=16) With high fat meal] </pre> | |
| Design Features | <p>In both Part 1 and Part 2 (if conducted), the first two treatment periods will be randomized, open-label, 2-period, single-dose, crossover. In each study part, the first 16 subjects who complete the first two treatment periods, and consent to continue, will return for a third treatment period and receive a single dose of the FDC tablet formulation (monolayer in Part 1, bilayer in Part 2) administered with a high fat meal.</p> |
| Dosing | <ul style="list-style-type: none"> • In the first two treatment periods (BE), each subject will be randomized to either receive an oral reference treatment DTG (50 mg) plus EPIVIR(300 mg); or an oral FDC (DTG 50mg/3TC 300mg) formulation (monolayer in Part 1, bilayer in Part 2) in two periods per the two sequences specified below under fasted state. • The first 16 subjects who complete the first two treatment periods in each part, and consent to continue, will return for a third treatment period and receive an oral FDC (DTG 50mg/3TC 300mg) formulation (monolayer in Part 1, bilayer in Part 2) administered with a high fat meal. • Total duration for each subject (from screening to follow-up) will be a minimum of 5 weeks, with a maximum of up to 9 weeks, depending on the screening period and whether a subject participates the third period. |

| Overview of Study Design and Key Features | | | | |
|--|---|---|----------|--------------------------|
| Treatment Assignment | Subjects will be randomized to one of the following two sequences in Part 1 and Part 2, if conducted. | | | |
| | Sequences | Period 1 | Period 2 | Period 3 |
| | | Bioequivalence, 2 Period-Crossover Design | | Food effect ^a |
| | Part 1 | | | |
| | A/B, n=38 | A | B | B Fed (n=16) |
| | B/A, n=38 | B | A | |
| | Part 2 (if conducted) | | | |
| | A/C, n=38 | A | C | C Fed (n=16) |
| | C/A, n=38 | C | A | |
| | Treatment A = DTG 50 mg tablet (clinical image) plus a single EPIVIR 300 mg tablet Treatment B = DTG 50 mg/3TC 300 mg FDC monolayer formulation (Product code AH) Treatment C = DTG 50 mg/3TC 300 mg FDC bilayer formulation (Product code TBD) a. first 16 subjects who complete the two treatment periods, and consent to continue to complete period 3 in each part | | | |
| | Subjects will be administered the 1 st treatment in the sequence in the 1 st period; the 2 nd treatment in the sequence in the 2 nd period; | | | |
| <ul style="list-style-type: none">Each treatment will be administered in the fasted state after at least 10 hours of fasting in the first two treatment periods.Each treatment will be administered with a high fat meal in the third treatment period. | | | | |
| Interim Analysis | Following completion of Part 1, preliminary PK data from Part 1 will be analyzed. The point estimates and corresponding 90% CIs will be constructed for the ratio of the geometric mean of the test treatment (monolayer) to the geometric mean of the reference treatments, $\mu(\text{test})/\mu(\text{reference})$ for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, and C_{\max} for both DTG and 3TC. A similar preliminary PK analysis as was conducted following Part 1, will also be performed for Part 2. The result will be used for planning a future Phase III study. An independent statistics and programming team will perform the preliminary PK analyses for both parts. | | | |

2.4. Statistical Hypotheses

The first two treatment periods of each part of this study are designed to test the bioequivalence of FDC tablets of DTG and 3TC (test treatment) relative to co-administered DTG plus 3TC (reference treatment) all under fasting condition. The null hypothesis is that the true ratio of the geometric mean of the test treatment to the geometric mean of the reference treatment, $\mu(\text{test})/\mu(\text{reference})$, for each primary PK endpoint, is either less than 0.800 or greater than 1.250. The alternate hypothesis is that the true ratio of the test treatment geometric mean to the reference treatment geometric mean is greater than or equal to 0.800 and less than or equal to 1.250. Symbolically, this

is expressed as follows:

- $H(0): \mu(\text{test})/\mu(\text{reference}) < 0.800$ or $\mu(\text{test})/\mu(\text{reference}) > 1.250$, i.e., treatments are not bioequivalent versus
- $H(1): 0.800 \leq \mu(\text{test})/\mu(\text{reference}) \leq 1.250$ i.e., treatments are bioequivalent.

For each PK parameter designated as a primary endpoint (see Section 2.2), a two one-sided t-test (TOST) procedure (Schiumann, 1987) with $\alpha=0.05$ for each one-sided test will be used to test this set of hypotheses. This is equivalent to requiring that a 90% interval for the true ratio of test to reference geometric means falls entirely within the range of 0.800 to 1.250. To declare bioequivalence of FDC tablet DTG and 3TC to co-administered DTG plus 3TC, the primary PK endpoints for both analytes should demonstrate bioequivalence.

For the food effect portion(s), no formal hypothesis will be tested and an estimation approach will be used to evaluate the effect of food on the FDC tablet.

3. PLANNED ANALYSIS

3.1. Interim Analyses

Following completion of Part 1, preliminary PK data from Part 1 will be analyzed. The point estimates and corresponding 90% CIs will be constructed for the ratio of the geometric mean of the test treatment (monolayer) to the geometric mean of the reference treatments, $\mu(\text{test})/\mu(\text{reference})$ for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, and C_{\max} for both DTG and 3TC.

A similar preliminary PK analysis as was conducted following Part 1, will also be performed for Part 2. This is simply bringing forward a part of the planned end of study analysis to pre-DBF, but after all subjects have completed the trial, in order to expedite decision making. The PK parameter data for the preliminary analysis will be based on the nominal sampling times.

The result will be used for planning a future Phase III study. An independent statistics and programming team will perform the preliminary PK analyses for both part1. As the PK data are analyzed separately for each part of the study, there will be no adjustments for multiplicity.

3.2. Final Analyses

| Analysis | Details |
|----------------|--|
| Final Analyses | Final analyses will be performed after the completion of the study and final database authorization. |

The final planned analyses will be performed after the completion of the following sequential steps:

1. All subjects have completed the study as defined in the protocol.
2. All required database cleaning activities have been completed and final database release and database freeze has been declared by Data Management.

3. All criteria for unblinding the randomisation codes have been met.
4. Randomisation codes have been distributed according to RandAll NG procedures.

4. ANALYSIS POPULATIONS

| Population | Definition / Criteria | Analyses Evaluated |
|---|---|---|
| Screening Population | All subjects who signed the consent form will be included in this population. | <ul style="list-style-type: none"> • Subject Disposition |
| Safety Population | All subjects who enrolled in the study and received at least one dose of study drug will be included in the Safety Population. | <ul style="list-style-type: none"> • Study Population • Safety |
| Pharmacokinetic (PK) Plasma Concentration | The PK Plasma Concentration Population will include all subjects who undergo plasma PK sampling and have evaluable PK assay results for DTG or 3TC. | <ul style="list-style-type: none"> • PK concentration listings, • calculating PK parameters, • PK parameter listings • plotting of the individual concentration-time profiles |
| Pharmacokinetic (PK) Parameter BE Summary | The PK Parameter BE Summary Population will include all subjects who have evaluable PK parameters for both analytes and for both Period 1 and Period 2. Data from subjects who vomit within 4 hours of study drug administration will not be considered as evaluable. | <ul style="list-style-type: none"> • PK concentration summary • PK parameter summary and figure • Statistical analysis of parameter data • Excluded subjects will be included in footnotes for summary tables |
| Pharmacokinetic (PK) Parameter FD Summary | The PK Parameter FD Summary Population will include subjects who participate in the food effect part of study, and have evaluable PK parameters for both fed and fasted administration of the FDC tablet formulation. Data from subjects who vomit within 4 hours of study drug administration will not be considered as evaluable. | <ul style="list-style-type: none"> • PK concentration summary • PK parameter summary and figure • Statistical analysis of parameter data • Excluded subjects will be included in footnotes for summary tables |

NOTES :

- Please refer to [Appendix 11](#) which details the population to be used for each display being generated.
- Additional PK concentration and parameter summary tables will be provided by using the PK plasma concentration population if there are subjects with only 1 period PK data or subjects who vomit.

4.1. Protocol Deviations

- All protocol deviations will be listed with flags to indicate whether a PD is important and results in exclusion from the analysis population.
- Important deviations will also be summarized, reported in the study report (Please refer to [Appendix 1: Protocol Deviation Management](#)).
- Protocol deviations will be tracked by the study team throughout the conduct of the study in accordance with the Protocol Deviation Management Plan.
 - Data will be reviewed prior to unblinding and freezing the database to ensure all important deviations and deviations which may lead to exclusion from the analysis are captured and categorised in the protocol deviations dataset.
 - This dataset will be the basis for the listings of protocol deviations.
- A separate listing of all inclusion/exclusion criteria deviations will also be provided.

5. CONSIDERATIONS FOR DATA ANALYSES AND DATA HANDLING CONVENTIONS

[Table 1](#) provides an overview of appendices within the RAP for outlining general considerations for data analyses and data handling conventions.

Table 1 Overview of Appendices

| Section | Component |
|---------|--|
| 10.1 | Appendix 1: Protocol Deviation Management |
| 10.2 | Appendix 2: Data Management |
| 10.3 | Appendix 3: Time & Events |
| 10.4 | Appendix 4: Treatment States and Phases |
| 10.5 | Appendix 5: Data Display Standards & Handling Conventions |
| 10.6 | Appendix 6: Derived and Transformed Data |
| 10.7 | Appendix 7: Premature Withdrawals & Handling of Missing Data |
| 10.8 | Appendix 8: Values of Potential Clinical Importance |
| 10.9 | Appendix 9: Model Checking and Diagnostics for Statistical Analyses. |
| 10.10 | Appendix 10: Abbreviations and Trade Marks |
| 10.11 | Appendix 11: List of Data Displays |
| 10.12 | Appendix 12: Example Mock Shells for Data Displays |

6. STUDY POPULATION ANALYSES

6.1. Overview of Planned Analyses

The study population analyses will be based on the “Safety” population, unless otherwise specified.

[Table 2](#) provides an overview of the planned study population analyses, with full details of data displays being presented in [Appendix 11](#): List of Data Displays.

Table 2 Overview of Planned Study Population Analyses

| Display Type | Data Displays Generated | | |
|--|-------------------------|-------|------------------|
| | Figure | Table | Listing |
| Randomization | | | |
| Randomization | | | Y |
| Subject Disposition | | | |
| Subject Disposition | | Y | |
| Reasons for Screening Failures | | | Y ^[1] |
| Reasons for Withdrawals | | | Y |
| Important ^[3] Protocol Deviations | | Y | Y |
| Inclusion and Exclusion Criteria Deviations | | | Y |
| Subjects Excluded from Analysis Populations | | | Y ^[2] |
| Demography | | | |
| Demographics Characteristics | | Y | Y |
| Race & Racial Combinations | | Y | Y |
| Concomitant Medications | | | |
| Concomitant Medication | | | Y |

NOTES:

- Y = Yes display generated.
- 1. Conditional displays, if data is available listing will be generated.
- 2. Listing of subjects excluded from any population will be generated only.
- 3. All protocol deviations will be listed, with important protocol deviations summarized.

7. PRIMARY STATISTICAL ANALYSES

7.1. Pharmacokinetic Analyses

The reconciliation of the PK Case Report Form (CRF) and SMS2000 data will be performed by, or under the direct auspices of, Clinical Pharmacology Sciences and Study Operations (CPSSO) data management, GlaxoSmithKline.

The merge of PK concentration data, randomization and CRF data will be performed by Study Data Tabulation Model (SDTM) programmer at Quintiles and the analysis PK

concentration dataset and WinNonLin files will be created by statistics and programming, PAREXEL, under the direct auspices of statistics and programming, Quantitative Sciences (QSci), GlaxoSmithKline.

Derivation of pharmacokinetic parameters will be performed by Clinical Pharmacology Modelling & Simulation (CPMS), QSci, GlaxoSmithKline.

Statistical Analysis of pharmacokinetic parameters will be performed by statistics and programming, PAREXEL, under the direct auspices of statistics and programming, QSci, GlaxoSmithKline.

7.1.1. Overview of Planned Pharmacokinetic Analyses

The pharmacokinetic (PK) analyses will be based on the “PK Plasma Concentration” or “PK Parameter BE or FD Summary” populations, unless otherwise specified.

[Table 3](#) provides an overview of the planned analyses, with full details being presented in [Appendix 11](#): List of Data Displays.

Table 3 Overview of Planned Pharmacokinetic Analyses

| Endpoints | Untransformed | | | | Log _e -Transformed | | | |
|------------------------------------|---------------------|---|------------------|---|-------------------------------|---|------------|------------------|
| | Summary | | Individual | | Summary | | Individual | |
| | F | T | F | L | F | T | F | L |
| Plasma Drug Concentrations | Y ^{[1][2]} | Y | Y ^[1] | Y | | | | |
| Derived PK Parameters | | Y | Y ^[3] | Y | Y ^[4] | Y | Y | |
| Statistical Analysis PK Parameters | | | | | Y ^[5] | Y | | Y ^[6] |

NOTES :

- T = Table, F = Figures, L = Listings, Y = Yes display generated.
 - Summary = Represents TFL related to any summaries (descriptive statistics) of the observed raw data.
 - Individual = Represents FL related to any displays of individual subject observed raw data.
 - T_{max} and t_{lag} are not log transformed.
1. Linear and Semi-Log plots will be created on the same display.
 2. Mean (+SD) and Median plots will be generated.
 3. Comparative Plot of Individual DTG and 3TC Plasma PK Parameter versus treatments
 4. Treatment Comparative Plot of adjusted geometric mean (95% CI) with Individual Subject Plasma PK Parameters will be generated.
 5. Geometric Mean Treatment Ratio and 90% CI of DTG and 3TC Plasma PK Parameters will be generated.
 6. Supportive SAS Output from Statistical Analysis of Log_e-transformed DTG and 3TC Plasma PK Parameters

7.1.2. Drug Concentration Measures

Refer to [Appendix 5](#): Data Display Standards & Handling Conventions (Section 10.5.3 Reporting Process & Standards).

7.1.3. Pharmacokinetic Parameters

7.1.3.1. Deriving Pharmacokinetic Parameters

- PK analyses will be the responsibility of the CPMS department within GSK or their designee. Plasma DTG and 3TC concentration-time data will be analyzed by non-compartmental methods according to current working practices and using Phoenix WinNonlin 6.3 or higher. Calculations will be based on the actual sampling times recorded during the study and based on nominal sampling times. From the plasma concentration-time data, the following PK parameters will be determined, as data permit: C_{max} , T_{max} , $AUC_{(0-t)}$, $AUC_{(0-\infty)}$, $AUC_{(0-24)}$, $t_{1/2}$, t_{lag} , C_{24} , C_t , λ_z , $\%AUC_{ex}$, V_z/F , t and CL/F .
- Refer to [Appendix 5: Data Display Standards & Handling Conventions](#) (Section 10.5.3 Reporting Process & Standards).
- Non-compartmental analysis will be performed in accordance with GSK PK Guidance document GUI_51487.
- Two sets of PK parameters will be derived for each subject, analyte and treatment: one set based on actual sampling times and one set based on nominal times.
- Pharmacokinetic parameters described in [Table 4](#) will be determined from plasma concentration-time data, as data permit.

Refer [Appendix 7](#) Section 10.7.2.2 for handling of PK Concentration data.

Table 4 Derived Pharmacokinetic Parameters

| Parameter | Parameter Description |
|--------------------|--|
| $AUC_{(0-\infty)}$ | Area under the concentration-time curve from time zero extrapolated to infinity |
| $AUC_{(0-t)}$ | Area under the concentration-time curve from time zero to the time of the last quantifiable concentration (C_t) will be calculated using the linear trapezoidal rule for each incremental trapezoid and the log trapezoidal rule for each decremental trapezoid. |
| $AUC_t(\%)$ | Percent of the area measured by $AUC_{(0-t)}$ relative to the extrapolated $AUC_{(0-\infty)}$ |
| $AUC_{(0-24)}$ | Area under the plasma concentration time curve from time zero to 24 hours |
| $\%AUC_{ex}$ | $\%$ of $AUC_{(0-\infty)}$ that was extrapolated |
| C_{24} | Drug concentration at 24 hours post-dose |
| C_{max} | Maximum observed concentration, determined directly from the concentration-time data. |
| C_t | last quantifiable concentration |
| t | time of last quantifiable concentration |
| T_{max} | Time to reach C_{max} , determined directly from the concentration-time data. |
| t_{lag} | Lag time before observation of drug concentrations in sampled matrix |

| Parameter | Parameter Description |
|-------------------|---|
| λ_z | Apparent elimination rate constant |
| $t_{1/2}$ | Apparent terminal half-life will be calculated as: $t_{1/2} = \ln 2 / \lambda_z$ (NOTE: λ_z is the terminal phase rate constant). |
| CL/F | The apparent oral clearance (CL/F) will be calculated as $CL/F = \text{Dose}/AUC_{(0-\infty)}$ |
| V _z /F | Apparent oral volume of distribution |

7.1.3.2. Statistical Analysis of Pharmacokinetic Parameters

Two sets of bioequivalence assessments and food effect will be performed based on:

- PK parameters derived based on actual sampling times
- PK parameters derived based on nominal sampling times

For each of the parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{\max} , C_{24} , C_t , CL/F and $t_{1/2}$, the following summary statistics will be calculated and tabulated by treatment (dose):

- **Untransformed Data :** N, n, arithmetic mean, %CV, 95% confidence interval (CI) for the arithmetic mean, SD, median, minimum, and maximum.
- **Log_e-transformed Data:** Geometric mean, 95% CI for the geometric mean, SD of log_e-transformed data and %CVb

For %AUC_{ex}, T_{\max} , t_{lag} , λ_z , t , and V_z/F, the summary statistics specified for untransformed data above will be generated.

PK data will be listed and may be presented in graphical form and will be summarized descriptively. All PK data will be stored in the Archives, GlaxoSmithKline R& D.

Statistical analyses of the PK parameter data will be the responsibility of Clinical Statistics, GlaxoSmithKline or their designee.

The PK parameters for DTG and 3TC (except T_{\max} and t_{lag}) will be log_e-transformed and separately analyzed using a mixed effects model. For the analysis of bioequivalence, the model will include fixed effect terms for period and treatment. Subject will be treated as a random effect in the model. For the analysis of food effect, the model will include a fixed effect term for treatment (fed versus fasted) and a random effect term for subject. Point estimates and their associated 90% CIs will be constructed for the differences in PK parameter values between test and reference treatments for the treatment comparisons. The point estimates and their associated 90% CIs will then be back-transformed to provide point estimates and 90% CIs for the ratios of PK parameters between test and reference treatments.

T_{\max} and t_{lag} of DTG and 3TC will be separately analyzed with the non-parametric Wilcoxon matched pair method to compute point estimates and associated 90% confidence intervals for the median differences between test and reference treatments.

Primary and Secondary Comparisons of Interest

| | DTG or 3TC PK Parameter | Test | Reference | Assessment |
|-----------|---|---|-----------------------|----------------|
| Primary | $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, C_{max} , | Treatment B | Treatment A | Bioequivalence |
| | | Treatment C (if Part 2 is conducted) | Treatment A | |
| Secondary | CL/F, $AUC_{(0-24)}$, C_{24} , $t_{1/2}$ | Treatment B | Treatment A | Bioequivalence |
| | | Treatment C (if Part 2 is conducted) | Treatment A | |
| | $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, C_{max} , CL/F, $AUC_{(0-24)}$, C_{24} , $t_{1/2}$ | Treatment B Fed | Treatment B Fasted | Food Effect |
| | | Treatment C Fed (if Part 2 is conducted) | Treatment C Fasted | |

Estimates of within-subject variability for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, C_{max} , CL/F, $AUC_{(0-24)}$, C_{24} , $t_{1/2}$ will also be provided, where $CV_w(\%) = \text{SQRT}(\exp(\text{MSE}) - 1) \times 100$ and MSE is the residual mean squared error from the model. CV_w represents a pooled measure of within-subject variability across the treatments A and B or A and C (if Part 2 is conducted).

Comparative Plot of Individual subject DTG and 3TC Plasma PK Parameter Versus Treatment will be generated.

Treatment Comparative Plots of adjusted geometric mean (95% CI) with Individual Subject Plasma PK Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, C_{max} , CL/F, $AUC_{(0-24)}$, C_{24} , $t_{1/2}$ will be generated.

Plots will also be provided showing the adjusted geometric mean ratio of test to reference treatment for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, C_{max} , CL/F, $AUC_{(0-24)}$, C_{24} , $t_{1/2}$ with 90% CIs.

The SAS output from the statistical models and the assessment of assumptions underlying the models will be included in a listing of supportive SAS output.

Additional PK displays for Canada specific submission requirements will also be provided.

8. SECONDARY STATISTICAL ANALYSES

8.1. Safety Analyses

The safety analyses will be based on the “Safety” population, unless otherwise specified.

8.1.1. Overview of Planned Analyses

[Table 5](#) provides an overview of the planned analyses, with full details of data displays being presented in [Appendix 11](#): List of Data Displays.

Table 5 Overview of Planned Safety Analyses

| Endpoint | Absolute | | | | Change from Baseline | | | |
|---|----------|---|------------|---|----------------------|---|------------|---|
| | Summary | | Individual | | Summary | | Individual | |
| | T | F | F | L | T | F | F | L |
| Exposure | | | | | | | | |
| Exposure | | | | Y | | | | |
| Adverse Events | | | | | | | | |
| All AE's | Y | | | Y | | | | |
| Serious AE's | Y | | | Y | | | | |
| Drug Related AEs | Y | | | Y | | | | |
| Withdrawal AE's | Y | | | Y | | | | |
| Relationship Between System Organ Class And Verbatim Text | | | | Y | | | | |
| Subject Numbers for Individual AEs | | | | Y | | | | |
| Laboratory Values | | | | | | | | |
| Clinical Chemistry | Y | | | | Y | | | |
| Hematology | Y | | | | Y | | | |
| Abnormal Clinical Chemistry | | | | Y | | | | |
| Abnormal Hematology | | | | Y | | | | |
| Abnormal Urinalysis | | | | Y | | | | |
| ECG's | | | | | | | | |
| ECG Findings | Y | | | | | | | |
| ECG Values | Y | | | | | | | |
| ECG Values Outside the PCI Range | | | | Y | | | | |
| All ECG Values for Subjects with a Value of PCI | | | | Y | | | | |
| Abnormal ECG Findings | | | | Y | | | | |
| Vital Signs | | | | | | | | |
| Vitals Values | Y | | | | Y | | | |
| Vital Signs Measurements Outside the PCI Range | | | | Y | Y | | | |
| All Vital Signs for Subjects with Values of PCI | | | | Y | | | | |

NOTES :

- T = Table, F = Figures, L = Listings, Y = Yes display generated.
- Summary = Represents TFL related to any summaries (i.e. descriptive statistics) of the observed raw data.
- Individual = Represents FL related to any displays of individual subject observed raw data.

9. REFERENCES

GlaxoSmithKline Document Number 2016N286215_00: An Open-label, Randomized, Single dose, Crossover, Pivotal Bioequivalence Study of Fixed-dose Combination Tablets of Dolutegravir and Lamivudine versus Dolutegravir and Lamivudine single entities and Food Effect Assessment in Healthy Volunteers. Effective Date: 12-JAN-2017

GlaxoSmithKline Document Number 2016N286215_01: An Open-label, Randomized, Single dose, Crossover, Pivotal Bioequivalence Study of Fixed-dose Combination Tablet(s) of Dolutegravir and Lamivudine versus Dolutegravir and Lamivudine single entities and Food Effect Assessment in Healthy Volunteers Effective Date: 07-FEB-2107

Schiurmann DJ. A comparison of the two one-sided tests procedure and the power approach for assessing the equivalence of average bioavailability. *J Pharmacokinetics Biopharm* 1987; 15:657-679.

10. APPENDICES

| Section | Appendix |
|---|--|
| RAP Section 4: Analysis Populations | |
| Section 10.1 | Appendix 1: Protocol Deviation Management |
| RAP Section 5 : General Considerations for Data Analyses & Data Handling Conventions | |
| Section 10.2 | Appendix 2: Data Management |
| Section 10.3 | Appendix 3: Time and Events |
| Section 10.4 | Appendix 4: Treatment States & Phases |
| Section 10.5 | Appendix 5: Data Display Standards & Handling Conventions <ul style="list-style-type: none"> • Study Treatment & Sub-group Display Descriptors • Baseline Definitions & Derivations • Reporting Process & Standards |
| Section 10.6 | Appendix 6: Derived and Transformed Data <ul style="list-style-type: none"> • General • Study Population • Safety • Pharmacokinetic |
| Section 10.7 | Appendix 7: Premature Withdrawals & Handling of Missing Data <ul style="list-style-type: none"> • General • Study Population & Safety |
| Section 10.8 | Appendix 8: Values of Potential Clinical Importance <ul style="list-style-type: none"> • Laboratory Values • ECG • Vital Signs |
| Section 10.9 | Appendix 9: Model Checking and Diagnostics for Statistical Analyses |
| Other RAP Appendices | |
| Section 10.10 | Appendix 10: Abbreviations & Trade Marks |
| Section 10.11 | Appendix 11: List of Data Displays |
| Section 10.12 | Appendix 12: Example Mock Shells for Data Displays |

10.1. Appendix 1: Protocol Deviation Management

A subject meeting any of the following criteria will be excluded from the PK Parameter BE and/or FD Summary Population:

| Number | Exclusion Description |
|--------|--|
| 01 | Failure of any inclusion/exclusion criteria, but subject is still enrolled |
| 02 | A subject with emesis occurring within 4 hours of the dose |

10.2. Appendix 2: Data Management

| Data Type | Source | Format of Data | Planned Date of Final File ¹ | Responsibility |
|-----------------------------------|--|----------------|---|----------------|
| Safety | Database | SDTM | DBF | CPSSO |
| PK Concentration | SMS2000 data files | dat file | DBF | BIB/BESM |
| PK Concentration (ADPC), WNL File | PK concentration data (SDTM PC), exposure (EX) and demography (DM) datasets ² | ADaM, CSV file | DBF + 5 Days ¹ | QSci |
| PK Parameters | WNL file | CSV file | PK Concentration, WNL file + 5 Days | CPMS |

1. Provided SDTM PC, EX and DM are in time and clean
2. PK concentration data is released via SMS2000 by Bioanalysis, Immunogenicity and Biomarkers (BIB)/Bioanalytical External Study Monitors (BESM) and the SDTM PC contains date/times and PK sample ID

10.3. Appendix 3: Time & Events

Screening Assessments

| Visit Window (relative to Day 1) | Day -30 to -2 | Notes |
|--|---------------|---|
| Informed Consent | X | |
| Demographics | X | |
| Physical examination height, weight and BMI | X | |
| Medical/medication/ history | X | <i>Medical/medication/drug and alcohol history will be recorded at screening, and updated at admission.</i> |
| Urine drug / Cotinine and Breathalyzer screening | X | |
| 12-lead ECG and Vital Signs | X | |
| Serum or urine hCG test (female subjects only) | X | <ul style="list-style-type: none"> • See inclusion Protocol criterion #6. • Performed at site standard procedure. |
| FSH and estradiol (women) | X | |
| HIV, Hep B and Hep C Screen | X | |
| Hematology/Chemistry/Urinalysis tests | X | |

Treatment Period Assessments

| Assessments | All Dosing Periods | | | | | | | Follow-up | Notes Day -1 of Periods 2 to 3 may be the same day as Day 6 of prior periods |
|--|---|---------------|------|--|-------|-------|-------|-----------|--|
| | Day -1 | Day 1 | | | Day 2 | Day 3 | Day 4 | | |
| | | Pre-dose | 0 hr | Post Dose | - | 48 hr | 72 hr | | |
| Admission to Unit | X | | | | | | | | |
| Discharge | | | | | | X | | | |
| Outpatient Visit | | | | | | | X | X | Follow-up visit will occur 7 to 14 days post last dose. |
| 12-lead ECG | X | | | | | | | | Single ECGs will be collected at Screening and on Day-1 of Period 1 only. Additional ECGs may be performed at the discretion of the investigator. |
| Vital signs | X | X | | At 4 hours post-dose | X | X | X | X | Single measurements performed at all time points. |
| Brief Physical Exam | X | | | | | | | | <ul style="list-style-type: none">Brief examinations may be made full examinations and laboratory procedures may be repeated, if needed, at the discretion of the Investigator.Illicit Drug/Alcohol/Cotinine/pregnancy screening will be performed in accordance with the sites' standard practice.Clinical laboratory tests – see Protocol Table 5. |
| Urine Drug/ Cotinine and Breathalyzer | X | | | | | | | | |
| Pregnancy test | X | | | | | | | X | |
| Clinical laboratory tests | X | | | | | | | X | |
| Dosing | | | X | | | | | | Subject will be dosed while in the seated position. |
| Pharmacokinetic Sampling | | X | | Collect at 0.25, 0.5, 0.75, 1, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 12, 16, 24, and 48 hours post-dose | | | X | | Pre-dose (within 15 minutes prior to dosing). 4 hour post dose sample must be taken <u>prior to</u> provision of food. Permitted window for the collection of PK sample at each time point will be specified in BioPacket. |
| Meals – (Treatment periods 1 and 2) | Fasted from 10 hours prior to dosing to 4 hours post-dose | | | Standard for the study center | | | | | See also Protocol Section 6.10.1.1 |
| Meals - Treatment Period 3 (Fed Conditions only) | Fasted from 10 hours prior to test meal and dosing then through 4 hours post-dose | | | Standard for the study center | | | | | Entire meal to be consumed in 25 minutes or less and dosing will be administered 30 minutes after the start of the meal. See also Protocol Section 6.10.1.2 |
| Adverse Events | X | ←=====X=====→ | | | | | | X | |
| Concomitant medications | X | ←=====X=====→ | | | | | | X | |

10.4. Appendix 4: Treatment States and Phases

10.4.1. Treatment Phases

Assessments and events will be classified according to the time of occurrence relative to the start and/or stop date/time of the study treatment.

| Treatment Phase | Definition |
|-----------------|--|
| Pre-Treatment | Date/Time \leq Study Treatment Start Date/Time |
| On-Treatment | Study Treatment Start Date/Time < Date/Time \leq [Study Treatment Stop Date/Time + 3 Days] |
| Post-Treatment | Date/Time > [Study Treatment Stop Date/Time + 3 Days] |

10.4.2. Treatment States

Assessments and events will be classified according to time of occurrence relative to the start and/or stop date/time of the study treatment.

10.4.2.1. Treatment States for AE Data

| Treatment State | Definition |
|------------------------------------|--|
| Pre-Treatment | AE Start Date/Time < Study Treatment Start Date/Time |
| On-Treatment | If AE onset date/time is on or after treatment start date/time & 3 or fewer days after the treatment stop date/time Study Treatment Start Date/Time \leq AE Start Date/Time \leq [Study Treatment Stop Date/Time + 3] |
| Post-Treatment | If AE onset date/time is more than 3 days after the treatment stop date/time AE Start Date/Time > [Study Treatment Stop Date/Time + 3] |
| Onset Time Since First Dose (Days) | If Treatment Start Date/Time > AE Onset Date/Time = AE Onset Date - Treatment Start Date If Treatment Start Date/Time \leq AE Onset Date/Time = AE Onset Date - Treatment Start Date + 1 Missing otherwise |
| Duration (Days) | AE Resolution Date – AE Onset Date + 1 |
| Drug-related | If relationship is marked 'YES' on eCRF |

NOTES:

- If the study treatment stop date is missing then the AE will be considered to be On-Treatment.

10.5. Appendix 5: Data Display Standards & Handling Conventions

10.5.1. Study Treatment & Sub-group Display Descriptors

| Treatment Group Descriptions | | |
|------------------------------|--|-----------------------------|
| RandAll NG | | Data Displays for Reporting |
| Code | Description | Description |
| A | DTG 50mg plus EPIVIR 300mg | A |
| B | DTG 50mg and 3TC 300mg FDC monolayer | B |
| C | DTG 50mg and 3TC 300mg FDC bilayer | C |
| B_Fed ^[1] | DTG 50mg and 3TC 300mg FDC monolayer fed | B_Fed |
| C_Fed ^[1] | DTG 50mg and 3TC 300mg FDC bilayer fed | C_Fed |

[1] Treatments B_Fed and C_Fed are assigned.

NOTES: Add the following footnote for treatment description.

A: DTG 50mg plus EPIVIR 300mg

B: DTG 50mg and 3TC 300mg FDC monolayer

C: DTG 50mg and 3TC 300mg FDC bilayer

B_Fed: DTG 50mg and 3TC 300mg FDC monolayer fed

C_Fed: DTG 50mg and 3TC 300mg FDC bilayer fed

10.5.2. Baseline Definition & Derivations

10.5.2.1. Baseline Definitions

For all endpoints (except as noted in the table) the baseline value will be the latest pre-dose assessment.

Table 6 Baseline Definitions

| Parameter | Study Assessments Considered As Baseline | | | Baseline Used in Data Display |
|--|--|--------|------------------|----------------------------------|
| | Screening | Day -1 | Day 1 (Pre-Dose) | |
| Safety | | | | |
| Lab | X | X | | Day -1 |
| Vital Signs (blood pressure, and pulse rate) | X | X | X | Day 1 (Pre-Dose) for each Period |

10.5.2.2. Derivations and Handling of Missing Baseline Data

| Definition | Reporting Details |
|----------------------|------------------------------------|
| Change from Baseline | = Post-Dose Visit Value – Baseline |

NOTES :

- Unless otherwise specified, the baseline definitions specified in Section 10.5.2.1 Baseline Definitions will be used for derivations for endpoints / parameters and indicated on summaries and listings.
- Unless otherwise stated, if baseline data is missing no derivation will be performed and will be set to missing.
- The baseline definition will be footnoted on all change from baseline displays.

10.5.3. Reporting Process & Standards

| Reporting Process | |
|---|--|
| Software | |
| <ul style="list-style-type: none"> • The currently supported versions of SAS and S-Plus software will be used. | |
| Reporting Area | |
| HARP Server | : US1SALX00259-HARP PROD-US |
| HARP Area | : \ARPROD\GSK1349572\mid204994\Final |
| QC Spreadsheet | : \ARWORK\GSK1349572\mid204994\Final\Documents |
| Analysis Datasets | |
| <ul style="list-style-type: none"> • Analysis datasets will be created according to Clinical Data Interchange Standards Consortium (CDISC) standards (SDTM IG Version 3.1.3 & Analysis Data Model (ADaM) Implementation Guide (ADaM IG) Version 1.0 or higher dataset standards) | |
| Generation of Rich Text Format (RTF) Files | |
| <ul style="list-style-type: none"> • RTF files will be generated for summary displays. | |

| Reporting Standards |
|---|
| General |
| <ul style="list-style-type: none"> • The current GSK Integrated Data Standards Library (IDSL) will be applied for reporting, unless otherwise stated: <ul style="list-style-type: none"> ○ 4.03 to 4.23: General Principles ○ 5.01 to 5.08: Principles Related to Data Listings ○ 6.01 to 6.11: Principles Related to Summary Tables ○ 7.01 to 7.13: Principles Related to Graphics |
| Formats |
| <ul style="list-style-type: none"> • All data will be reported according to the actual treatment the subject received unless otherwise stated. • GSK IDSL Statistical Principles (5.03 & 6.06.3) for decimal places (DP's) will be adopted for reporting of data based on the raw data collected. • Numeric data will be reported at the precision collected on the eCRF. |

| Reporting Standards | |
|--|---|
| <ul style="list-style-type: none"> The reported precision from non eCRF sources will follow the IDSL statistical principles but may be adjusted to a clinically interpretable number of DP's. | |
| Planned and Actual Time | |
| <ul style="list-style-type: none"> Reporting for tables, figures and formal statistical analyses : <ul style="list-style-type: none"> Planned time relative to dosing will be used in figures, summaries, statistical analyses and calculation of any derived parameters, unless otherwise stated. The impact of any major deviation from the planned assessment times and/or scheduled visit days on the analyses and interpretation of the results will be assessed as appropriate. Reporting for Data Listings: <ul style="list-style-type: none"> Planned and actual time relative to study drug dosing will be shown in listings (Refer to IDSL Statistical Principle 5.05.1). Unscheduled or unplanned readings will be presented within the subject's listings. Visits outside the protocol defined time-windows (i.e. recorded as protocol deviations) will be included in listings but omitted from figures, summaries and statistical analyses. | |
| Unscheduled Visits | |
| <ul style="list-style-type: none"> Unscheduled visits will not be included in summary tables. Unscheduled visits will not be included in figures. All unscheduled visits will be included in listings. | |
| Descriptive Summary Statistics | |
| Continuous Data | Refer to IDSL Statistical Principle 6.06.1 |
| Categorical Data | N, n, frequency, % |
| Reporting of Pharmacokinetic Concentration Data | |
| Descriptive Summary Statistics | Refer to IDSL Statistical Principle 6.06.1 Assign zero to NQ values (Refer to GUI_51487 for further details) |
| Reporting of Pharmacokinetic Parameters | |
| Descriptive Summary Statistics. (Un-Transformed) | N, n, arithmetic mean, 95% confidence interval (CI) for the arithmetic mean, SD, median, minimum, maximum and CV(%) <ul style="list-style-type: none"> $CV(\%) = (SD/mean) * 100$ |
| Descriptive Summary Statistics. (Log _e Transformed) | N, n, geometric mean, 95% CI of geometric mean, standard deviation (SD) of logged data and between-subject geometric coefficient of variation (CV _b (%)) will be reported. <ul style="list-style-type: none"> Geometric mean = exp (mean on log_e scale) $CV_b(\%) = \sqrt{(\exp(SD^2) - 1) * 100}$ [NOTE: SD = SD of log_e transformed data] |
| Parameters Not Being Log _e Transformed | %AUC _{ex} , T _{max} , t _{lag} , t, λZ, Vz/F |
| Listings | Include PK Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , %AUC _{ex} , C _{max} , C ₂₄ , C _t , t, T _{max} , λZ, t _{1/2} , t _{lag} , CL/F, Vz/F, ratios (test: |

| Reporting Standards | |
|--|--|
| | reference) for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{24} and C_{\max} ; and the ratio of $AUC_{(0-t)}/AUC_{(0-\infty)}$ ($AUC_t(\%)$) for Canada specific submission requirement. |
| Graphical Displays | |
| <ul style="list-style-type: none">Refer to IDSL Statistical Principals 7.01 to 7.13. | |

10.6. Appendix 6: Derived and Transformed Data

10.6.1. General

Multiple Measurements at One Time Point

- Mean of the measurements will be calculated and used in any derivation of summary statistics but if listed, all data will be presented.
- If there are two values within a time window the value closest to the target day for that window will be used. If values are the same distance from the target then the mean will be taken.

Study Day

- Calculated as the number of days from Treatment start date :
 - Ref Date = Missing → Study Day = Missing
 - Ref Date < Treatment start Date → Study Day = Ref Date – Treatment start Date
 - Ref Date ≥ Treatment start Date → Study Day = (Ref Date – Treatment start Date) + 1

10.6.2. Study Population

Demographics

Age

- GSK standard IDSL algorithms will be used for calculating age using date of the screening visit relative to birth date, where birth date is imputed as:
 - Any subject with a missing date and month will have this imputed as '30th June'.
- Birth date will be presented in listings as 'YYYY'.

Body Mass Index (BMI)

- Calculated as **Weight (kg) / [Height (m)]²**

10.6.3. Safety

| ECG Parameters | |
|---|--|
| RR Interval | |
| <ul style="list-style-type: none"> IF RR interval (msec) is not provided directly, then RR can be derived as : <ul style="list-style-type: none"> [1] If QTcB is machine read & QTcF is not provided, then : $RR = [(QT/QTcB)^{(2)}] * 1000$ [2] If QTcF is machine read and QTcB is not provided, then: $RR = [(QT/QTcF)^{(3)}] * 1000$ | |
| Corrected QT Intervals | |
| <ul style="list-style-type: none"> When not entered directly in the eCRF, corrected QT intervals using Bazett's (QTcB) and Fredericia's (QTcF) formulas will be calculated, in msec, depending on the availability of other measurements. IF RR interval (msec) is provided then missing QTcB and/or QTcF will be derived as : | |
| $QTcB = \frac{QT}{\sqrt{\frac{RR}{1000}}}$ | |
| $QTcF = \frac{QT}{\sqrt[3]{\frac{RR}{1000}}}$ | |
| Laboratory Parameters | |
| <ul style="list-style-type: none"> If a laboratory value which is expected to have a numeric value for summary purposes, has a non-detectable level reported in the database, where the numeric value is missing, but typically a character value starting with '<x' or '>x' (or indicated as less than x or greater than x in the comment field) is present, the number of significant digits in the observed values will be used to determine how much to add or subtract in order to impute the corresponding numeric value. <ul style="list-style-type: none"> Example 1: 2 Significant Digits = '< x ' becomes x – 0.01 Example 2: 1 Significant Digit = '> x' becomes x + 0.1 Example 3: 0 Significant Digits = '< x' becomes x – 1 | |

10.7. Appendix 7: Premature Withdrawals & Handling of Missing Data

10.7.1. Premature Withdrawals

| Element | Reporting Detail |
|---------|---|
| General | <ul style="list-style-type: none"> All subjects who withdraw prematurely from the study/study drug will be documented and the reason for their withdrawal recorded in the final Clinical Pharmacology Study Report (CPSR). All available data collected up until the point of withdrawal, and the follow-up visits will be used in the analyses and will be listed and all available planned data will be included in the summaries according to the populations defined in Section 4. Any data collected up until the point of withdrawal, and the follow-up visits will be used in the analyses. In the event that the study is prematurely discontinued, all available data will be listed and a review carried out by the study team to assess which statistical analyses are still considered appropriate. |

10.7.2. Handling of Missing Data

| Element | Reporting Detail |
|----------|---|
| Outliers | <ul style="list-style-type: none"> Any subjects excluded from the summaries and/or statistical analyses will be documented along with the reason for exclusion in the clinical study report. |

10.7.2.1. Handling of Missing Dates

| Element | Reporting Detail |
|---------|--|
| General | Partial dates will be displayed as captured in subject listing displays. |

10.7.2.2. Handling of PK Concentration Data

| Element | Reporting Detail |
|---------|--|
| General | <ul style="list-style-type: none"> • The PK Plasma Concentration Population will include all subjects who undergo plasma PK sampling and have evaluable PK assay results for DTG or 3TC. • Data from subjects who vomit within 4 hours of study drug administration or who have major protocol deviations will be excluded from PK concentration summary, PK parameter summary and statistical comparisons but will be included in the Listing and flagged. • This population will be used for listing PK concentrations, parameters, calculating PK parameters and plotting of individual concentration-time files. • If the pre-dose concentration is $\leq 5\%$ of Cmax value in a subject, the concentration data for that subject without any adjustments will be included in PK and statistical analysis. If the pre-dose concentration is $> 5\%$ of Cmax value in a subject, then the concentration data for that subject will not be included in PK and statistical analysis and only the concentration data of that subject(s) will be presented • If during clinical phase, 3 consecutive samples in any phase i.e. (Absorption, Distribution and Metabolism / Excretion) are found to be missing then data for that subject will not be included in PK and statistical analysis and only the concentration data of that subject(s) will be presented |

10.8. Appendix 8: Values of Potential Clinical Importance

10.8.1. Laboratory Values

Division of AIDS (DAIDS, Version 2.0, November 2014) AE grade 2 and above of lab abnormalities will be listed by subject, period/treatment, visit, and actual date and time.

10.8.2. ECG

ECG Values of Potential Clinical Importance (Healthy Volunteers)

| ECG Parameter | Potential Clinical Importance Range (PCI) | Unit |
|-----------------------|---|------|
| Absolute QTc Interval | >450 | msec |
| PR Interval | <110 and >220 | msec |
| QRS Interval | <75 and >110 | msec |

10.8.3. Vital Signs

Vital Signs Values of Potential Clinical Importance (Healthy Volunteers)

| VS Parameter | Potential Clinical Importance Range (PCI) | Unit |
|--------------------------|---|------|
| Systolic Blood Pressure | <85 and >160 | mmHg |
| Diastolic Blood Pressure | <45 and >100 | mmHg |
| Heart Rate | <40 and >110 | bpm |

Vital Signs change from Baseline Flagging Range

| VS Parameter | Flagging Criteria | Unit |
|--|--------------------|------|
| Systolic Blood Pressure (Change from Baseline) | Increase ≥ 20 | mmHg |
| | Increase ≥ 40 | |
| | Decrease ≥ 20 | |
| | Decrease ≥ 40 | |
| Diastolic Blood Pressure (Change from Baseline) | Increase ≥ 10 | mmHg |
| | Increase ≥ 20 | |
| | Decrease ≥ 10 | |
| | Decrease ≥ 20 | |
| Heart Rate (Change from Baseline) | Increase ≥ 15 | bpm |
| | Increase ≥ 30 | |
| | Decrease ≥ 15 | |
| | Decrease ≥ 30 | |

10.9. Appendix 9: Model Checking and Diagnostics for Statistical Analyses

10.9.1. Statistical Analysis Assumptions

| | |
|---|---|
| Endpoint(s) | <ul style="list-style-type: none"> AUC(0-∞), AUC(0-t), C_{max}, CL/F, AUC(0-24), C₂₄, t_{1/2} |
| Analysis | <ul style="list-style-type: none"> Linear Mixed Model |
| <p>Assumptions:</p> <ul style="list-style-type: none"> For the Linear Mixed Model, model assumptions will be applied, but appropriate adjustments may be applied based on the data. The Kenward and Roger method for approximating the denominator degrees of freedom and correcting for bias in the estimated variance-covariance of the fixed effects will be used. An unstructured covariance structure for the G matrix will be used by specifying 'type=UN' on the RANDOM line. <ul style="list-style-type: none"> In the event that this model fails to converge, alternative covariance structures may be considered such as VC or CS. Akaike's Information Criteria (AIC) will be used to assist with the selection of covariance structure. Distributional assumptions underlying the model used for analysis will be examined by obtaining a normal probability plot of the residuals and a plot of the residuals versus the fitted values (i.e. checking the normality assumption and constant variance assumption of the model respectively) to gain confidence that the model assumptions are reasonable. Sensitivity analysis will be performed if the normality assumptions are violated due to presence of outliers. | |

10.10. Appendix 10 - Abbreviations & Trade Marks

10.10.1. Abbreviations

| Abbreviation | Description |
|--------------------|--|
| ADaM | Analysis Data Model |
| ADaM IG | Analysis Data Model Implementation Guide |
| AE | Adverse Event |
| AUC | Area under concentration-time curve |
| $AUC_{(0-\infty)}$ | Area under the concentration-time curve from time zero (pre-dose) extrapolated to infinite time |
| $AUC_{(0-t)}$ | Area under the concentration-time curve from time zero (pre-dose) to last time of quantifiable concentration |
| $AUC_{(0-24)}$ | Area under the plasma concentration time curve from time zero to 24 hours |
| $\%AUC_{ex}$ | % of $AUC_{(0-\infty)}$ that was extrapolated |
| $AUC_t(\%)$ | Percent of the area measured by $AUC_{(0-t)}$ relative to the extrapolated $AUC_{(0-\infty)}$ |
| BE | Bioequivalence |
| BESM | Bioanalytical External Study Monitors |
| BIB | Bioanalysis, Immunogenicity and Biomarkers |
| C_{24} | Drug concentration at 24 hours post-dose |
| CDISC | Clinical Data Interchange Standards Consortium |
| CI | Confidence Interval |
| CL/F | The apparent oral clearance |
| C_{max} | Maximum observed concentration |
| CP | Clinical Programming |
| CPMS | Clinical Pharmacology Modelling & Simulation |
| CPSSO | Clinical Pharmacology Sciences and Study Operations |
| CRF | Case record form |
| CS | Clinical Statistics |
| C_t | last quantifiable concentration |
| CV | Coefficient of Variation |
| CV_b/CV_w | Coefficient of Variation (Between)/Coefficient of Variation (Within) |
| DAIDS | Division of Acquired Immune Deficiency Syndrome |
| DBF | Database Freeze |
| DBR | Database Release |
| DTG | Dolutegravir |
| FD | Food Effect |
| GSK | GlaxoSmithKline |
| HARP | Harmonized Analysis and Reporting Process |
| IDSL | Integrated Data Standards Library |
| λ_z | Terminal phase rate constant |
| LLQ | Lower limit of quantification |
| NC | Not Calculable |

| | |
|-------------|--|
| NQ | Non-quantifiable concentration measured as below LLQ |
| PK | Pharmacokinetic |
| QSci | Quantitative Sciences |
| RAP | Reporting and Analysis Plan |
| RTF | Rich Text Format |
| 3TC | Lamivudine, EPIVIR™ |
| SAS | Statistical Analysis System |
| SD | Standard deviation |
| SDTM | Study Data Tabulation Model |
| SRP | Statistics Resourcing and Programming |
| t | time of last quantifiable concentration |
| $t_{1/2}$ | Terminal phase half-life |
| t_{lag} | Absorption lag time |
| T_{max} | Time of occurrence of C_{max} |
| λ_z | Apparent elimination rate constant |
| V_z/F | Apparent oral volume of distribution |

10.10.2. Trademarks

| Trademarks of ViiV Healthcare |
|-------------------------------|
| EPIVIR |
| EPZICOM |
| TIVICAY |
| TRIUMEQ |
| TRIZIVIR |

| Trademarks not owned by ViiV Healthcare |
|---|
| MedDRA |
| SAS |
| WinNonlin |

10.11. Appendix 11: List of Data Displays

10.11.1. Data Display Numbering

The following numbering will be applied for RAP generated displays:

| Section | Tables | Figures |
|------------------|--|--|
| Study Population | 1.01 to 1.05 | N/A |
| Pharmacokinetic | 2.01 to 2.78* *If Part 2 is conducted, same set of tables will be provided as 2.101 to 2.178 with Part 1 and Part 2 indication in the titles | 2.01 to 2.44* *If Part 2 is conducted, same set of figures will be provided as 2.101 to 2.144 with Part 1 and Part 2 indication in the titles |
| Safety | 3.01 to 3.13* *If Part 2 is conducted, same set of tables will be provided as 3.101 to 3.113 with Part 1 and Part 2 indication in the titles | N/A |
| Section | Listings* *If Part 2 is conducted, same set of listings will be provided as 101 to 148 with Part 1 and Part 2 indication in the titles | |
| ICH Listings | 1 to 25 | |
| Other Listings | 26 to 48 | |

10.11.2. Mock Example Referencing

Non IDSL specifications will be referenced as indicated and if required an example mock-up displays provided in [Appendix 12: Example Mock Shells for Data Displays](#).

| Section | Figure | Table | Listing |
|------------------|--------------|--------------------------------------|---------|
| Study Population | N/A | N/A | N/A |
| Pharmacokinetic | PK_F1, PK_F2 | PK_T1, PK_T2, PK_T3, PK_T4, PK_T5 | N/A |
| Safety | N/A | SAFE_T1 | SAFE_L1 |

NOTES:

- Indicate display is Non-Standard in the 'IDSL/TST ID / Example Shell' or 'Programming Notes' column.

10.11.3. Study Population Tables

| Study Population Tables | | | | | |
|--------------------------------|-------------------|--------------------------------------|---|---|-------------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| Subject Disposition | | | | | |
| 1.01 | Safety | CP_ES1 (XO) | Summary of Subject Disposition | Include Part 2 and Total (if Part 2 is conducted) | SAC |
| Demographics | | | | | |
| 1.02 | Safety | DM3 (XO) | Summary of Demographic characteristics | Include BMI, Race detail Include Part 2 and Total (if Part 2 is conducted) | SAC |
| 1.03 | Safety | DM5 | Summary of Race and Racial Combinations | Include Part 2 and Total (if Part 2 is conducted) | SAC |
| 1.04 | Safety | DM6 | Summary of Race and Racial Combinations Details | Include Part 2 and Total (if Part 2 is conducted) | SAC |
| 1.05 | Safety | DV1 | Summary of Important Protocol Deviations | Include Part 2 and Total (if Part 2 is conducted) | SAC |

10.11.4. Pharmacokinetic Tables

If Part 2 is conducted, same set of tables will be provided as 2.101 to 2.178 with Part 1 and Part 2 indication in the titles

| Pharmacokinetic Tables | | | | | |
|------------------------|-------------------------|-------------------------------|---|------------------------------------|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| PK Concentration Data | | | | | |
| 2.01 | PK Parameter BE Summary | pkct1 | Summary of DTG Plasma Concentration-time Data (unit) by Treatment - Bioequivalence Assessment | Treatments A, B only | SAC |
| 2.02 | PK Parameter BE Summary | pkct1 | Summary of 3TC Plasma Concentration-time Data (unit) by Treatment - Bioequivalence Assessment | Treatments A, B only | SAC |
| 2.03 | PK Parameter FD Summary | pkct1 | Summary of DTG Plasma Concentration-time Data (unit) by Treatment - Food Effect | Treatments B, B_Fed only | SAC |
| 2.04 | PK Parameter FD Summary | pkct1 | Summary of 3TC Plasma Concentration-time Data (unit) by Treatment – Food Effect | Treatments B, B_Fed only | SAC |
| 2.05 | PK Plasma Concentration | pkct1 | Summary of DTG Plasma Concentration-time Data (unit) by Treatment | All 3 treatments in the same table | SAC |
| 2.06 | PK Plasma Concentration | pkct1 | Summary of 3TC Plasma Concentration-time Data (unit) by Treatment | All 3 treatments in the same table | SAC |

| Pharmacokinetic Tables | | | | | |
|---|-------------------------|-------------------------------|---|---|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| PK Derived Parameters based on Actual Sampling Time | | | | | |
| 2.07 | PK Parameter BE Summary | pkpt1 | Summary of Untransformed DTG Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | All parameters with units; Treatments A, B only | SAC |
| 2.08 | PK Parameter BE Summary | pkpt1 | Summary of Untransformed 3TC Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | All parameters with units; Treatments A, B only | SAC |
| 2.09 | PK Parameter BE Summary | pkpt3 | Summary of Log _e -transformed DTG Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.10 | PK Parameter BE Summary | pkpt3 | Summary of Log _e -transformed 3TC Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.11 | PK Parameter FD Summary | pkpt1 | Summary of Untransformed DTG Plasma PK Parameters based on Actual Sampling Time - Food Effect | All parameters with units; Treatments B, B_Fed only | SAC |
| 2.12 | PK Parameter FD Summary | pkpt1 | Summary of Untransformed 3TC Plasma PK Parameters based on Actual Sampling Time - Food Effect | All parameters with units; Treatments B, B_Fed only | SAC |

| Pharmacokinetic Tables | | | | | |
|------------------------|-------------------------|-------------------------------|---|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.13 | PK Parameter FD Summary | pkpt3 | Summary of Log _e -transformed DTG Plasma PK Parameters based on Actual Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |
| 2.14 | PK Parameter FD Summary | pkpt3 | Summary of Log _e -transformed 3TC Plasma PK Parameters based on Actual Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |
| 2.15 | PK Plasma Concentration | pkpt1 | Summary of Untransformed DTG Plasma PK Parameters based on Actual Sampling Time | All parameters with units; All treatments | SAC |
| 2.16 | PK Plasma Concentration | pkpt1 | Summary of Untransformed 3TC Plasma PK Parameters based on Actual Sampling Time | All parameters with units; All treatments | SAC |
| 2.17 | PK Plasma Concentration | pkpt3 | Summary of Log _e -transformed DTG Plasma PK Parameters based on Actual Sampling Time | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; All treatments | SAC |
| 2.18 | PK Plasma Concentration | pkpt3 | Summary of Log _e -transformed 3TC Plasma PK Parameters based on Actual Sampling Time | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; All treatments | SAC |

| Pharmacokinetic Tables | | | | | |
|--|-------------------------|-------------------------------|---|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| Statistical Analysis Table based on Actual Sampling Time | | | | | |
| 2.19 | PK Parameter BE Summary | PK_T1 | Summary of Statistical Analysis of Log _e -transformed DTG Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.20 | PK Parameter BE Summary | PK_T1 | Summary of Statistical Analysis of Log _e -transformed 3TC Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.21 | PK Parameter BE Summary | PK_T2 | Summary of Statistical Analysis of Untransformed DTG Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | Parameters t _{lag} and T _{max} with units; Treatments A, B only | SAC |
| 2.22 | PK Parameter BE Summary | PK_T2 | Summary of Statistical Analysis of Untransformed 3TC Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | Parameters t _{lag} and T _{max} with units; Treatments A, B only | SAC |
| 2.23 | PK Parameter BE Summary | MID201676, Table 2.17 | Summary of Type 3 Tests of Fixed Effects for Log _e -transformed PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.24 | PK Parameter BE Summary | MID201676, Table 2.18 | Summary of Variance Estimates Effects for PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments A, B only | SAC |

| Pharmacokinetic Tables | | | | | |
|------------------------|-------------------------|-------------------------------|---|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.25 | PK Parameter FD Summary | PK_T1 | Summary of Statistical Analysis of Log _e -transformed DTG Plasma PK Parameters based on Actual Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |
| 2.26 | PK Parameter FD Summary | PK_T1 | Summary of Statistical Analysis of Log _e -transformed 3TC Plasma PK Parameters based on Actual Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |
| 2.27 | PK Parameter FD Summary | PK_T2 | Summary of Statistical Analysis of Untransformed DTG Plasma PK Parameters based on Actual Sampling Time – Food Effect | Parameters t _{lag} and T _{max} with units; Treatments B, B_Fed only | SAC |
| 2.28 | PK Parameter FD Summary | PK_T2 | Summary of Statistical Analysis of Untransformed 3TC Plasma PK Parameters based on Actual Sampling Time – Food Effect | Parameters t _{lag} and T _{max} with units; Treatments B, B_Fed only | SAC |
| 2.29 | PK Parameter FD Summary | MID201676, Table 2.17 | Summary of Type 3 Tests of Fixed Effects for Log _e -transformed PK Parameters based on Actual Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |
| 2.30 | PK Parameter FD Summary | MID201676, Table 2.18 | Summary of Variance Estimates Effects for PK Parameters based on Actual Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments B, B_Fed | SAC |

| Pharmacokinetic Tables | | | | | |
|---|-------------------------|-------------------------------|--|---|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| PK Derived Parameters based on Nominal Sampling Time | | | | | |
| 2.31 | PK Parameter BE Summary | pkpt1 | Summary of Untransformed DTG Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | All parameters with units; Treatments A, B only | SAC |
| 2.32 | PK Parameter BE Summary | pkpt1 | Summary of Untransformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | All parameters with units; Treatments A, B only | SAC |
| 2.33 | PK Parameter BE Summary | pkpt3 | Summary of Log _e -transformed DTG Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.34 | PK Parameter BE Summary | pkpt3 | Summary of Log _e -transformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.35 | PK Parameter FD Summary | pkpt1 | Summary of Untransformed DTG Plasma PK Parameters based on Nominal Sampling Time - Food Effect | All parameters with units; Treatments B, B_Fed only | SAC |
| 2.36 | PK Parameter FD Summary | pkpt1 | Summary of Untransformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Food Effect | All parameters with units; Treatments B, B_Fed only | SAC |
| 2.37 | PK Parameter FD Summary | pkpt3 | Summary of Log _e -transformed DTG Plasma PK Parameters based on Nominal Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |

| Pharmacokinetic Tables | | | | | |
|---|-------------------------|-------------------------------|--|---|--|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.38 | PK Parameter FD Summary | pkpt3 | Summary of Log _e -transformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |
| 2.39 | PK Plasma Concentration | pkpt1 | Summary of Untransformed DTG Plasma PK Parameters based on Nominal Sampling Time | All parameters with units; All treatments | SAC |
| 2.40 | PK Plasma Concentration | pkpt1 | Summary of Untransformed 3TC Plasma PK Parameters based on Nominal Sampling Time | All parameters with units; All treatments | SAC |
| 2.41 | PK Plasma Concentration | pkpt3 | Summary of Log _e -transformed DTG Plasma PK Parameters based on Nominal Sampling Time | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; All treatments | SAC |
| 2.42 | PK Plasma Concentration | pkpt3 | Summary of Log _e -transformed 3TC Plasma PK Parameters based on Nominal Sampling Time | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , C _t , CL/F and t _{1/2} with units; All treatments | SAC |
| Statistical Analysis Table based on Nominal Sampling Time | | | | | |
| 2.43 | PK Parameter BE Summary | PK_T1 | Summary of Statistical Analysis of Log _e -transformed DTG Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments A, B only | IA (only AUC _(0-∞) , AUC _(0-t) , C _{max}) SAC |

| Pharmacokinetic Tables | | | | | |
|------------------------|-------------------------|-------------------------------|--|--|---|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.44 | PK Parameter BE Summary | PK_T1 | Summary of Statistical Analysis of Log _e -transformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments A, B only | IA (only AUC _(0-∞) , AUC _(0-t) , C _{max}) SAC |
| 2.45 | PK Parameter BE Summary | PK_T2 | Summary of Statistical Analysis of Untransformed DTG Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Parameters tlag and Tmax with units; Treatments A, B only | SAC |
| 2.46 | PK Parameter BE Summary | PK_T2 | Summary of Statistical Analysis of Untransformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Parameters tlag and Tmax with units; Treatments A, B only | SAC |
| 2.47 | PK Parameter BE Summary | MID201676, Table 2.17 | Summary of Type 3 Tests of Fixed Effects for Log _e -transformed PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.48 | PK Parameter BE Summary | MID201676, Table 2.18 | Summary of Variance Estimates Effects for PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments A, B only | SAC |
| 2.49 | PK Parameter FD Summary | PK_T1 | Summary of Statistical Analysis of Log _e -transformed DTG Plasma PK Parameters based on Nominal Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments B, B_Fed only | IA (only AUC _(0-∞) , AUC _(0-t) , C _{max}) SAC |

| Pharmacokinetic Tables | | | | | |
|---------------------------|-------------------------|-------------------------------|--|--|---|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.50 | PK Parameter FD Summary | PK_T1 | Summary of Statistical Analysis of Log _e -transformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments B, B_Fed only | IA (only AUC _(0-∞) , AUC _(0-t) , C _{max}) SAC |
| 2.51 | PK Parameter FD Summary | PK_T2 | Summary of Statistical Analysis of Untransformed DTG Plasma PK Parameters based on Nominal Sampling Time – Food Effect | Parameters t _{lag} and T _{max} with units; Treatments B, B_Fed only | SAC |
| 2.52 | PK Parameter FD Summary | PK_T2 | Summary of Statistical Analysis of Untransformed 3TC Plasma PK Parameters based on Nominal Sampling Time – Food Effect | Parameters t _{lag} and T _{max} with units; Treatments B, B_Fed only | SAC |
| 2.53 | PK Parameter FD Summary | ING114580, Table 3.10 | Summary of Type 3 Tests of Fixed Effects for Log _e -transformed PK Parameters based on Nominal Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |
| 2.54 | PK Parameter FD Summary | ING114580, Table 3.11 | Summary of Variance Estimates Effects for PK Parameters based on Nominal Sampling Time - Food Effect | Parameters AUC _(0-∞) , AUC _(0-t) , AUC ₍₀₋₂₄₎ , C _{max} , C ₂₄ , CL/F and t _{1/2} with units; Treatments B, B_Fed only | SAC |
| Canada Specific PK Tables | | | | | |
| PK Concentration Data | | | | | |
| 2.55 | PK Plasma Concentration | PK_T3 | DTG Drug Concentration (unit) for the Test Formulation B | | SAC |

| Pharmacokinetic Tables | | | | | |
|---|-------------------------|-------------------------------|---|---------------------------|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.56 | PK Plasma Concentration | PK_T3 | DTG Drug Concentration (unit) for the Test Formulation B_Fed | | SAC |
| 2.57 | PK Plasma Concentration | PK_T3 | DTG Drug Concentration (unit) for the Reference Formulation A | | SAC |
| 2.58 | PK Plasma Concentration | PK_T3 | 3TC Drug Concentration (unit) for the Test Formulation B | | SAC |
| 2.59 | PK Plasma Concentration | PK_T3 | 3TC Drug Concentration (unit) for the Test Formulation B_Fed | | SAC |
| 2.60 | PK Plasma Concentration | PK_T3 | 3TC Drug Concentration (unit) for the Reference Formulation A | | SAC |
| PK Derived Parameters based on Actual Sampling Time | | | | | |
| 2.61 | PK Plasma Concentration | PK_T4 | DTG Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B | All parameters with units | SAC |
| 2.62 | PK Plasma Concentration | PK_T4 | DTG Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B_Fed | All parameters with units | SAC |
| 2.63 | PK Plasma Concentration | PK_T4 | DTG Parameter Estimates based on Actual Time for Each Subject Given the Reference Formulation A | All parameters with units | SAC |
| 2.64 | PK Plasma Concentration | PK_T4 | 3TC Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B | All parameters with units | SAC |
| 2.65 | PK Plasma Concentration | PK_T4 | 3TC Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B_Fed | All parameters with units | SAC |
| 2.66 | PK Plasma Concentration | PK_T4 | 3TC Parameter Estimates based on Actual Time for Each Subject Given the Reference Formulation A | All parameters with units | SAC |

| Pharmacokinetic Tables | | | | | |
|------------------------|-------------------------|-------------------------------|---|---|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.67 | PK Parameter BE Summary | PK_T4 | DTG Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B - Bioequivalence Assessment | All parameters with units | SAC |
| 2.68 | PK Parameter BE Summary | PK_T4 | DTG Parameter Estimates based on Actual Time for Each Subject Given the Reference Formulation A - Bioequivalence Assessment | All parameters with units | SAC |
| 2.69 | PK Parameter BE Summary | PK_T4 | 3TC Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B - Bioequivalence Assessment | All parameters with units | SAC |
| 2.70 | PK Parameter BE Summary | PK_T4 | 3TC Parameter Estimates based on Actual Time for Each Subject Given the Reference Formulation A - Bioequivalence Assessment | All parameters with units | SAC |
| 2.71 | PK Parameter BE Summary | PK_T5 | DTG Parameter Analysis – Data based on Actual Time - Bioequivalence Assessment | All parameters with units; Treatments A, B only | SAC |
| 2.72 | PK Parameter BE Summary | PK_T5 | 3TC Parameter Analysis – Data based on Actual Time - Bioequivalence Assessment | All parameters with units; Treatments A, B only | SAC |
| 2.73 | PK Parameter FD Summary | PK_T4 | DTG Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B_Fed – Food Effect | All parameters with units | SAC |
| 2.74 | PK Parameter FD Summary | PK_T4 | DTG Parameter Estimates based on Actual Time for Each Subject Given the Reference Formulation A – Food Effect | All parameters with units | SAC |
| 2.75 | PK Parameter FD Summary | PK_T4 | 3TC Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B_Fed – Food Effect | All parameters with units | SAC |

| Pharmacokinetic Tables | | | | | |
|------------------------|-------------------------|-------------------------------|---|---|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.76 | PK Parameter FD Summary | PK_T4 | 3TC Parameter Estimates based on Actual Time for Each Subject Given the Reference Formulation A – Food Effect | All parameters with units | SAC |
| 2.77 | PK Parameter FD Summary | PK_T5 | DTG Parameter Analysis – Data based on Actual Time - Food Effect | All parameters with units; Treatments B, B_Fed only | SAC |
| 2.78 | PK Parameter FD Summary | PK_T5 | 3TC Parameter Analysis – Data based on Actual Time - Food Effect | All parameters with units; Treatments B, B_Fed only | SAC |

10.11.5. Pharmacokinetic Figures

If Part 2 is conducted, same set of figures will be provided as 2.101 to 2.144 with Part 1 and Part 2 indication in the titles

| Pharmacokinetic Figures | | | | | |
|---------------------------------------|-------------------------|--------------------------------------|--|--------------------------|-------------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| Individual Concentration Plots | | | | | |
| 2.01 | PK Plasma Concentration | pkcf1x | Individual Subject DTG Plasma Concentration-time Plot (Linear and Semi-log) by Subject | Paged by Subject | SAC |
| 2.02 | PK Plasma Concentration | pkcf1x | Individual Subject 3TC Plasma Concentration-time Plot (Linear and Semi-log) by Subject | Paged by Subject | SAC |
| 2.03 | PK Plasma Concentration | pkcf6 | Individual Subject DTG Plasma Concentration-time Plot (Linear and Semi-log) by Treatment | Paged by Treatment | SAC |
| 2.04 | PK Plasma Concentration | pkcf6 | Individual Subject 3TC Plasma Concentration-time Plot (Linear and Semi-log) by Treatment | Paged by Treatment | SAC |

| Pharmacokinetic Figures | | | | | |
|-----------------------------------|-------------------------|-------------------------------|--|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| Mean / Median Concentration Plots | | | | | |
| 2.05 | PK Parameter BE Summary | pkcf4 | Arithmetic Mean (+SD) DTG Plasma Concentration-time Plot (Linear and Semi-log) - Bioequivalence Assessment | Use nominal times in X Axis, Paged by Treatment. Treatments A, B only | SAC |
| 2.06 | PK Parameter BE Summary | pkcf4 | Arithmetic Mean (+SD) 3TC Plasma Concentration-time Plot (Linear and Semi-log) - Bioequivalence Assessment | Use nominal times in X Axis, Paged by Treatment. Treatments A, B only | SAC |
| 2.07 | PK Parameter BE Summary | pkcf5 | Median (range) DTG Plasma Concentration-time Plot (Linear and Semi-log) - Bioequivalence Assessment | Use nominal times in X Axis, Paged by Treatment. Treatments A, B only | SAC |
| 2.08 | PK Parameter BE Summary | pkcf5 | Median (range) 3TC Plasma Concentration-time Plot (Linear and Semi-log) - Bioequivalence Assessment | Use nominal times in X Axis, Paged by Treatment. Treatments A, B only | SAC |
| 2.09 | PK Parameter BE Summary | pkcf4 | Arithmetic Mean DTG Plasma Concentration-time Plot (Linear and Semi-log) - Bioequivalence Assessment | Use nominal times in X Axis. Keep all the treatments in one plot. Use different colours for different treatments. Treatments A, B only | SAC |
| 2.10 | PK Parameter BE Summary | pkcf4 | Arithmetic Mean 3TC Plasma Concentration-time Plot (Linear and Semi-log) - Bioequivalence Assessment | Use nominal times in X Axis. Keep all the treatments in one plot. Use different colours for different treatments. Treatments A, B only | SAC |

| Pharmacokinetic Figures | | | | | |
|-------------------------|-------------------------|-------------------------------|--|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.11 | PK Parameter BE Summary | pkcf5 | Median DTG Plasma Concentration-time Plot (Linear and Semi-log) - Bioequivalence Assessment | Use nominal times in X Axis. Keep all the treatments in one plot. Use different colours for different treatments. Treatments A, B only | SAC |
| 2.12 | PK Parameter BE Summary | pkcf5 | Median 3TC Plasma Concentration-time Plot (Linear and Semi-log)- Bioequivalence Assessment | Use nominal times in X Axis. Keep all the treatments in one plot. Use different colours for different treatments. Treatments A, B only | SAC |
| 2.13 | PK Parameter FD Summary | pkcf4 | Arithmetic Mean (+SD) DTG Plasma Concentration-time Plot (Linear and Semi-log) - Food Effect | Use nominal times in X Axis, Paged by Treatment. Treatments B, B_Fed only | SAC |
| 2.14 | PK Parameter FD Summary | pkcf4 | Arithmetic Mean (+SD) 3TC Plasma Concentration-time Plot (Linear and Semi-log) - Food Effect | Use nominal times in X Axis, Paged by Treatment. Treatments B, B_Fed only | SAC |
| 2.15 | PK Parameter FD Summary | pkcf5 | Median (range) DTG Plasma Concentration-time Plot (Linear and Semi-log) - Food Effect | Use nominal times in X Axis, Paged by Treatment. Treatments B, B_Fed only | SAC |
| 2.16 | PK Parameter FD Summary | pkcf5 | Median (range) 3TC Plasma Concentration-time Plot (Linear and Semi-log) - Food Effect | Use nominal times in X Axis, Paged by Treatment. Treatments B, B_Fed only | SAC |

| Pharmacokinetic Figures | | | | | |
|---|-------------------------|-------------------------------|--|---|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.17 | PK Parameter FD Summary | pkcf4 | Arithmetic Mean DTG Plasma Concentration-time Plot (Linear and Semi-log) - Food Effect | Use nominal times in X Axis. Keep all the treatments in one plot. Use different colours for different treatments. Treatments B, B_Fed only | SAC |
| 2.18 | PK Parameter FD Summary | pkcf4 | Arithmetic Mean 3TC Plasma Concentration-time Plot (Linear and Semi-log) - Food Effect | Use nominal times in X Axis. Keep all the treatments in one plot. Use different colours for different treatments. Treatments B, B_Fed only | SAC |
| 2.19 | PK Parameter FD Summary | pkcf5 | Median DTG Plasma Concentration-time Plot (Linear and Semi-log) - Food Effect | Use nominal times in X Axis. Keep all the treatments in one plot. Use different colours for different treatments. Treatments B, B_Fed only | SAC |
| 2.20 | PK Parameter FD Summary | pkcf5 | Median 3TC Plasma Concentration-time Plot (Linear and Semi-log) - Food Effect | Use nominal times in X Axis. Keep all the treatments in one plot. Use different colours for different treatments. Treatments B, B_Fed only | SAC |
| Comparative PK Parameters Plots based on Actual Sampling Time | | | | | |
| 2.21 | PK Parameter BE Summary | pkpf3 | Comparative Plot of Individual Subject DTG Plasma Pharmacokinetic Parameter based on Actual Sampling Time Versus Treatment - Bioequivalence Assessment | Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments A, B only | SAC |

| Pharmacokinetic Figures | | | | | |
|-------------------------|-------------------------|-------------------------------|---|---|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.22 | PK Parameter BE Summary | pkpf3 | Comparative Plot of Individual Subject 3TC Plasma Pharmacokinetic Parameter based on Actual Sampling Time Versus Treatment - Bioequivalence Assessment | Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments A, B only | SAC |
| 2.23 | PK Parameter BE Summary | PK_F1 | Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects DTG Plasma Pharmacokinetic Parameters based on Actual Sampling Time - Bioequivalence Assessment | Paged by $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments A, B only | SAC |
| 2.24 | PK Parameter BE Summary | PK_F1 | Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects 3TC Plasma Pharmacokinetic Parameters based on Actual Sampling Time - Bioequivalence Assessment | Paged by $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments A, B only | SAC |
| 2.25 | PK Parameter FD Summary | pkpf3 | Comparative Plot of Individual Subject DTG Plasma Pharmacokinetic Parameter based on Actual Sampling Time Versus Treatment – Food Effect | Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments B, B_Fed only | SAC |
| 2.26 | PK Parameter FD Summary | pkpf3 | Comparative Plot of Individual Subject 3TC Plasma Pharmacokinetic Parameter based on Actual Sampling Time Versus Treatment – Food Effect | Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments B, B_Fed only | SAC |

| Pharmacokinetic Figures | | | | | |
|--|-------------------------|-------------------------------|---|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.27 | PK Parameter FD Summary | PK_F1 | Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects DTG Plasma Pharmacokinetic Parameters based on Actual Sampling Time – Food Effect | Paged by $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments B, B_Fed only | SAC |
| 2.28 | PK Parameter FD Summary | PK_F1 | Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects 3TC Plasma Pharmacokinetic Parameters based on Actual Sampling Time – Food Effect | Paged by $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments B, B_Fed only | SAC |
| Statistical Analysis Plots based on Actual Sampling Time | | | | | |
| 2.29 | PK Parameter BE Summary | PK_F2 | Geometric Mean Treatment Ratio and 90% CI of DTG Plasma Pharmacokinetic Parameters based on Actual Sampling Time - Bioequivalence Assessment | Produce for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$, all parameters on one plot. Treatments A, B only | SAC |
| 2.30 | PK Parameter BE Summary | PK_F2 | Geometric Mean Treatment Ratio and 90% CI of 3TC Plasma Pharmacokinetic Parameters based on Actual Sampling Time - Bioequivalence Assessment | Produce for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$, all parameters on one plot. Treatments A, B only | SAC |
| 2.31 | PK Parameter FD Summary | PK_F2 | Geometric Mean Treatment Ratio and 90% CI of DTG Plasma Pharmacokinetic Parameters based on Actual Sampling Time – Food Effect | Produce for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$, all parameters on one plot. Treatments B, B_Fed only | SAC |

| Pharmacokinetic Figures | | | | | |
|--|-------------------------|-------------------------------|--|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.32 | PK Parameter FD Summary | PK_F2 | Geometric Mean Treatment Ratio and 90% CI of 3TC Plasma Pharmacokinetic Parameters based on Actual Sampling Time – Food Effect | Produce for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$, all parameters on one plot. Treatments B, B_Fed only | SAC |
| Comparative PK Parameters Plots based on Nominal Sampling Time | | | | | |
| 2.33 | PK Parameter BE Summary | pkpf3 | Comparative Plot of Individual Subject DTG Plasma Pharmacokinetic Parameter based on Nominal Sampling Time Versus Treatment - Bioequivalence Assessment | Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments A, B only | SAC |
| 2.34 | PK Parameter BE Summary | pkpf3 | Comparative Plot of Individual Subject 3TC Plasma Pharmacokinetic Parameter based on Nominal Sampling Time Versus Treatment - Bioequivalence Assessment | Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments A, B only | SAC |
| 2.35 | PK Parameter BE Summary | PK_F1 | Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects DTG Plasma Pharmacokinetic Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Paged by $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments A, B only | SAC |
| 2.36 | PK Parameter BE Summary | PK_F1 | Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects 3TC Plasma Pharmacokinetic Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Paged by $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments A, B only | SAC |

| Pharmacokinetic Figures | | | | | |
|---|-------------------------|-------------------------------|--|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.37 | PK Parameter FD Summary | pkpf3 | Comparative Plot of Individual Subject DTG Plasma Pharmacokinetic Parameter based on Nominal Sampling Time Versus Treatment – Food Effect | Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments B, B_Fed only | SAC |
| 2.38 | PK Parameter FD Summary | pkpf3 | Comparative Plot of Individual Subject 3TC Plasma Pharmacokinetic Parameter based on Nominal Sampling Time Versus Treatment – Food Effect | Parameters $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments B, B_Fed only | SAC |
| 2.39 | PK Parameter FD Summary | PK_F1 | Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects DTG Plasma Pharmacokinetic Parameters based on Nominal Sampling Time – Food Effect | Paged by $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments B, B_Fed only | SAC |
| 2.40 | PK Parameter FD Summary | PK_F1 | Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects 3TC Plasma Pharmacokinetic Parameters based on Nominal Sampling Time – Food Effect | Paged by $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$ with units; Treatments B, B_Fed only | SAC |
| Statistical Analysis Plots based on Nominal Sampling Time | | | | | |
| 2.41 | PK Parameter BE Summary | PK_F2 | Geometric Mean Treatment Ratio and 90% CI of DTG Plasma Pharmacokinetic Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Produce for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$, all parameters on one plot. Treatments A, B only | SAC |

| Pharmacokinetic Figures | | | | | |
|-------------------------|-------------------------|-------------------------------|---|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 2.42 | PK Parameter BE Summary | PK_F2 | Geometric Mean Treatment Ratio and 90% CI of 3TC Plasma Pharmacokinetic Parameters based on Nominal Sampling Time - Bioequivalence Assessment | Produce for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$, all parameters on one plot. Treatments A, B only | SAC |
| 2.43 | PK Parameter FD Summary | PK_F2 | Geometric Mean Treatment Ratio and 90% CI of DTG Plasma Pharmacokinetic Parameters based on Nominal Sampling Time – Food Effect | Produce for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$, all parameters on one plot. Treatments B, B_Fed only | SAC |
| 2.44 | PK Parameter FD Summary | PK_F2 | Geometric Mean Treatment Ratio and 90% CI of 3TC Plasma Pharmacokinetic Parameters based on Nominal Sampling Time – Food Effect | Produce for $AUC_{(0-\infty)}$, $AUC_{(0-t)}$, $AUC_{(0-24)}$, C_{max} , C_{24} , CL/F and $t_{1/2}$, all parameters on one plot. Treatments B, B_Fed only | SAC |

10.11.6. Safety Tables

If Part 2 is conducted, same set of tables will be provided as 3.101 to 3.113 with Part 1 and Part 2 indication in the titles

| Safety Tables | | | | | |
|-----------------------|------------|-------------------------------|--|-------------------|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| Adverse Events | | | | | |
| 3.01 | Safety | CP_AE1x (xo) | Summary of All Adverse Events | | SAC |
| 3.02 | Safety | CP_AE1x (xo) | Summary of Drug-Related Adverse Events | | SAC |
| 3.03 | Safety | CP_AE1x (xo) | Summary of Serious Adverse Events | | SAC |
| 3.04 | Safety | CP_AE1x (xo) | Summary of AEs Leading to Permanent Discontinuation of Study Drug or Withdrawal from Study | | SAC |
| Labs | | | | | |
| 3.05 | Safety | LB1 | Summary of Chemistry Laboratory Values | | SAC |
| 3.06 | Safety | LB1 | Summary of Change from Baseline for Chemistry Laboratory Values | | SAC |
| 3.07 | Safety | LB1 | Summary of Hematology Laboratory Values | | SAC |
| 3.08 | Safety | LB1 | Summary of Change from Baseline for Hematology Laboratory Values | | SAC |
| ECGs | | | | | |
| 3.09 | Safety | EG1 | Summary of ECG Findings | | SAC |
| 3.10 | Safety | EG2 | Summary of ECG Values | | SAC |
| Vital Signs | | | | | |
| 3.11 | Safety | VS1 | Summary of Vital Signs | Include BP, HR | SAC |

| Safety Tables | | | | | |
|---------------|------------|-------------------------------|--|-------------------|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 3.12 | Safety | VS1 | Summary of Change From Baseline for Vital Signs | Include BP, HR | SAC |
| 3.13 | Safety | SAFE_T1 | Frequency of Subjects with Vital Signs Measurements Outside the Potential Clinical Concern Range | | SAC |

10.11.7. ICH Listings

If Part 2 is conducted, same set of listings will be provided as 101 to 148 with Part 1 and Part 2 indication in the titles

| ICH Listings | | | | | |
|-------------------------------|-------------------|--------------------------------------|--|--|-------------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| Randomisation | | | | | |
| 1 | Safety | CP_RA1x (XO) | Listing of Randomized and Actual Treatments | Add randomization date | SAC |
| Subject Disposition | | | | | |
| 2 | Screening | ES7 | Listing of Reasons for Screening Failures | Include Age and Sex. Concatenate with Subjid | SAC |
| 3 | Safety | CP_ES10x (XO) | Listing of Reasons for Withdrawal | | SAC |
| 4 | Safety | DV2 | Listing of Protocol Deviations | | SAC |
| 5 | Screening | SAFE_L1 | Listing of Subjects Excluded from Analysis Populations | | SAC |
| 6 | Safety | IE4 (XO) | Listing of Subjects with Inclusion/Exclusion Criteria Deviations | | SAC |
| Demographics | | | | | |
| 7 | Safety | DM4 (XO) | Listing of Demographic Characteristics | | SAC |
| 8 | Safety | DM10 (XO) | Listing of Race | | SAC |
| Concomitant Medication | | | | | |
| 9 | Safety | CP_CM4 (XO) | Listing of Concomitant Medications by Generic Term | | SAC |
| Exposure | | | | | |
| 10 | Safety | EX4 (XO) | Listing of Exposure Data | | SAC |

| ICH Listings | | | | | |
|-----------------------|------------|-------------------------------|--|--|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| Adverse Events | | | | | |
| 11 | Safety | AE7 | Listing of Subject Numbers for Individual Adverse Events | | SAC |
| 12 | Safety | CP_AE9 (XO) | Listing of All Adverse Events | | SAC |
| 13 | Safety | CP_AE9 (XO) | Listing of Drug Related Adverse Events | | SAC |
| 14 | Safety | CP_AE9a (xo) | Listing of Serious Adverse Events | | SAC |
| 15 | Safety | CP_AE9 (xo) | Listing of Adverse Events Leading to Permanent Discontinuation of Study Treatment or Withdrawal from Study | | SAC |
| LABS | | | | | |
| 16 | Safety | CP_LB6 (xo) | Listing of Clinical Chemistry with Grade 2 or Higher Lab Abnormalities | Include all tests in which we have DAIDS criteria. | SAC |
| 17 | Safety | CP_LB6 (xo) | Listing of All Clinical Chemistry Laboratory Data for Subjects with Grade 2 or Higher Lab Abnormalities | Include all tests in which we have DAIDS criteria. | SAC |
| 18 | Safety | CP_LB6 (xo) | Listing of Hematology with Grade 2 or Higher Lab Abnormalities | Include all tests in which we have DAIDS criteria. | SAC |
| 19 | Safety | CP_LB6 (xo) | Listing of All Hematology Laboratory Data for Subjects with Grade 2 or Higher Lab Abnormalities | Include all tests in which we have DAIDS criteria. | SAC |
| 20 | Safety | UR2b | Listing of Urinalysis Data for Subjects with Positive Dipstick or Microscopic Results | | SAC |

| ICH Listings | | | | | |
|--------------------|------------|-------------------------------|---|-------------------|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| ECGs | | | | | |
| 21 | Safety | CP_EG4 (xo) | Listing of ECG Values of Potential Clinical Importance | | SAC |
| 22 | Safety | CP_EG4 (xo) | Listing of All ECG Values for Subjects with any Value of Potential Clinical Importance | | SAC |
| 23 | Safety | CP_EG6 (xo) | Listing of Abnormal ECG findings | | SAC |
| Vital Signs | | | | | |
| 24 | Safety | CP_VS5 (XO) | Listing of Vital Signs of Potential Clinical Importance | | SAC |
| 25 | Safety | CP_VS5 (XO) | Listing of All Vital Signs for Subjects with any Value of Potential Clinical Importance | | SAC |

10.11.8. Non-ICH Listings

| Non-ICH : Listings | | | | | |
|--------------------|-------------------------|-------------------------------|--|-------------------|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| AE | | | | | |
| 26 | Safety | AE2 | Relationship between System Organ Class and Verbatim Text | | SAC |
| PK | | | | | |
| 27 | PK Plasma Concentration | pkcl1x | Listing of DTG Plasma Concentration-time Data | | SAC |
| 28 | PK Plasma Concentration | pkcl1x | Listing of 3TC Plasma Concentration-time Data | | SAC |
| 29 | PK Plasma Concentration | pkpl1x | Listing of DTC Plasma PK Parameters based on Actual Sampling Time | | SAC |
| 30 | PK Plasma Concentration | pkpl1x | Listing of 3TC Plasma PK Parameters based on Actual Sampling Time | | SAC |
| 31 | PK Plasma Concentration | pkpl1x | Listing of DTC Plasma PK Parameters based on Nominal Sampling Time | | SAC |
| 32 | PK Plasma Concentration | pkpl1x | Listing of 3TC Plasma PK Parameters based on Nominal Sampling Time | | SAC |
| 33 | PK Parameter BE Summary | mid20167, listing 33 | Listing of Individual DTG Plasma PK Parameter Treatment Ratios based on Actual Sampling Time - Bioequivalence Assessment | | SAC |
| 34 | PK Parameter BE Summary | mid20167, listing 33 | Listing of Individual 3TC Plasma PK Parameter Treatment Ratios based on Actual Sampling Time - Bioequivalence Assessment | | SAC |

| Non-ICH : Listings | | | | | |
|--------------------|-------------------------|-------------------------------|--|-------------------|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 35 | PK Parameter FD Summary | mid20167, listing 33 | Listing of Individual DTG Plasma PK Parameter Treatment Ratios based on Actual Sampling Time – Food Effect | | SAC |
| 36 | PK Parameter FD Summary | mid20167, listing 33 | Listing of Individual 3TC Plasma PK Parameter Treatment Ratios based on Actual Sampling Time – Food Effect | | SAC |
| 37 | PK Parameter BE Summary | mid20167, listing 33 | Listing of Individual DTG Plasma PK Parameter Treatment Ratios based on Nominal Sampling Time - Bioequivalence Assessment | | SAC |
| 38 | PK Parameter BE Summary | mid20167, listing 33 | Listing of Individual 3TC Plasma PK Parameter Treatment Ratios based on Nominal Sampling Time - Bioequivalence Assessment | | SAC |
| 39 | PK Parameter FD Summary | mid20167, listing 33 | Listing of Individual DTG Plasma PK Parameter Treatment Ratios based on Nominal Sampling Time – Food Effect | | SAC |
| 40 | PK Parameter FD Summary | mid20167, listing 33 | Listing of Individual 3TC Plasma PK Parameter Treatment Ratios based on Nominal Sampling Time – Food Effect | | SAC |
| 41 | PK Parameter BE Summary | N/A | RAW SAS Output from Statistical Analysis of Log _e -transformed DTG Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | | SAC |
| 42 | PK Parameter BE Summary | N/A | RAW SAS Output from Statistical Analysis of Log _e -transformed 3TC Plasma PK Parameters based on Actual Sampling Time - Bioequivalence Assessment | | SAC |

| Non-ICH : Listings | | | | | |
|--------------------|-------------------------|-------------------------------|---|-------------------|------------------------|
| No. | Population | IDSL / TST ID / Example Shell | Title | Programming Notes | Deliverable [Priority] |
| 43 | PK Parameter FD Summary | N/A | RAW SAS Output from Statistical Analysis of Log _e -transformed DTG Plasma PK Parameters based on Actual Sampling Time - Food Effect | | SAC |
| 44 | PK Parameter FD Summary | N/A | RAW SAS Output from Statistical Analysis of Log _e -transformed 3TC Plasma PK Parameters based on Actual Sampling Time - Food Effect | | SAC |
| 45 | PK Parameter BE Summary | N/A | RAW SAS Output from Statistical Analysis of Log _e -transformed DTG Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | | SAC |
| 46 | PK Parameter BE Summary | N/A | RAW SAS Output from Statistical Analysis of Log _e -transformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Bioequivalence Assessment | | SAC |
| 47 | PK Parameter FD Summary | N/A | RAW SAS Output from Statistical Analysis of Log _e -transformed DTG Plasma PK Parameters based on Nominal Sampling Time - Food Effect | | SAC |
| 48 | PK Parameter FD Summary | N/A | RAW SAS Output from Statistical Analysis of Log _e -transformed 3TC Plasma PK Parameters based on Nominal Sampling Time - Food Effect | | SAC |

10.12. Appendix 12: Example Mock Shells for Data Displays

Example : PK_T1

Protocol : 204994

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Population : PK Parameter BE Summary (programming note: 'PK Parameter BE (or FD) Summary' depending each display in TOC)

Table xx.xx

Summary of Statistical Analysis of Log_e-transformed DTG Plasma Pharmacokinetic Parameters based on Actual Sampling Time

| <i>Parameter</i> | <i>Comparison Test vs Reference</i> | <i>Adjusted Geometric Mean</i> | | <i>Ratio (Test/Ref)</i> | <i>90% Confidence Interval for Ratio</i> | <i>%CV_w</i> |
|----------------------------------|--|--------------------------------|-------------|-----------------------------|--|------------------------------|
| | | <i>n</i> | <i>Test</i> | <i>n</i> | <i>Ref</i> | |
| $C_{max}(\text{units})$ | [Test treatment description] vs [Reference treatment description] | x | xx.xx | x | xx.xx | x.xxxx (x.xxxx, x.xxxx) xx.x |
| $AUC_{(0-t)}(\text{units})$ | [Test treatment description] vs [Reference treatment description] | x | xx.xx | x | xx.xx | x.xxxx (x.xxxx, x.xxxx) xx.x |
| $AUC_{(0-\infty)}(\text{units})$ | [Test treatment description] vs [Reference treatment description] | x | xx.xx | x | xx.xx | x.xxxx (x.xxxx, x.xxxx) xx.x |
| $C_{24}(\text{units})$ | [Test treatment description] vs [Reference treatment description] | x | xx.xx | x | xx.xx | x.xxxx (x.xxxx, x.xxxx) xx.x |

Example : PK_T2
Protocol : 204994
Population : PK Parameter BE Summary

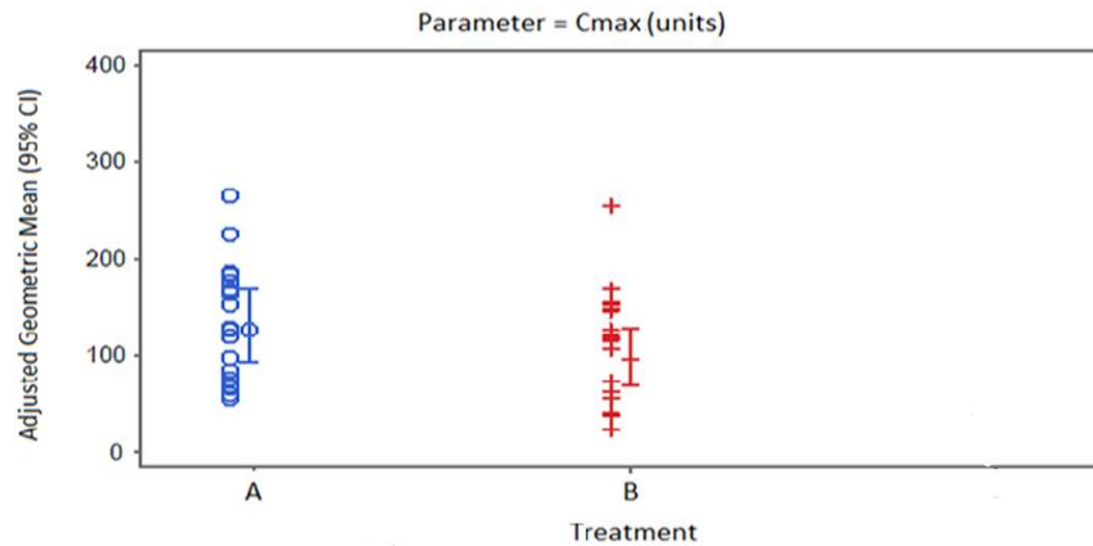
Table xx.xx
Summary of Statistical Analysis of Median Difference and Confidence Interval for DTG Pharmacokinetic Parameters based on Actual Sampling Time

| Parameter | Comparison | Median | | Estimated Median Diff (Test - Ref) | 90% Confidence Interval for Diff |
|------------------|--|--------|-------|--|-------------------------------------|
| | | n | Test | | |
| <hr/> | | | | | |
| $T_{lag}(units)$ | [Test treatment description] vs [Reference treatment description] | x | xx.xx | x | xx.xx |
| | | | | x.xxxx | (x.xxxx, x.xxxx) |
| $T_{max}(units)$ | [Test treatment description] vs [Reference treatment description] | x | xx.xx | x | xx.xx |
| | | | | x.xxxx | (x.xxxx, x.xxxx) |

Example : PK_F1
Protocol : 204994
Population : PK Parameter BE Summary

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Figure xx.xx
Treatment Comparative Plot of Adjusted Geometric Mean (95% CI) with Individual Subjects
DTG Plasma Pharmacokinetic Parameters

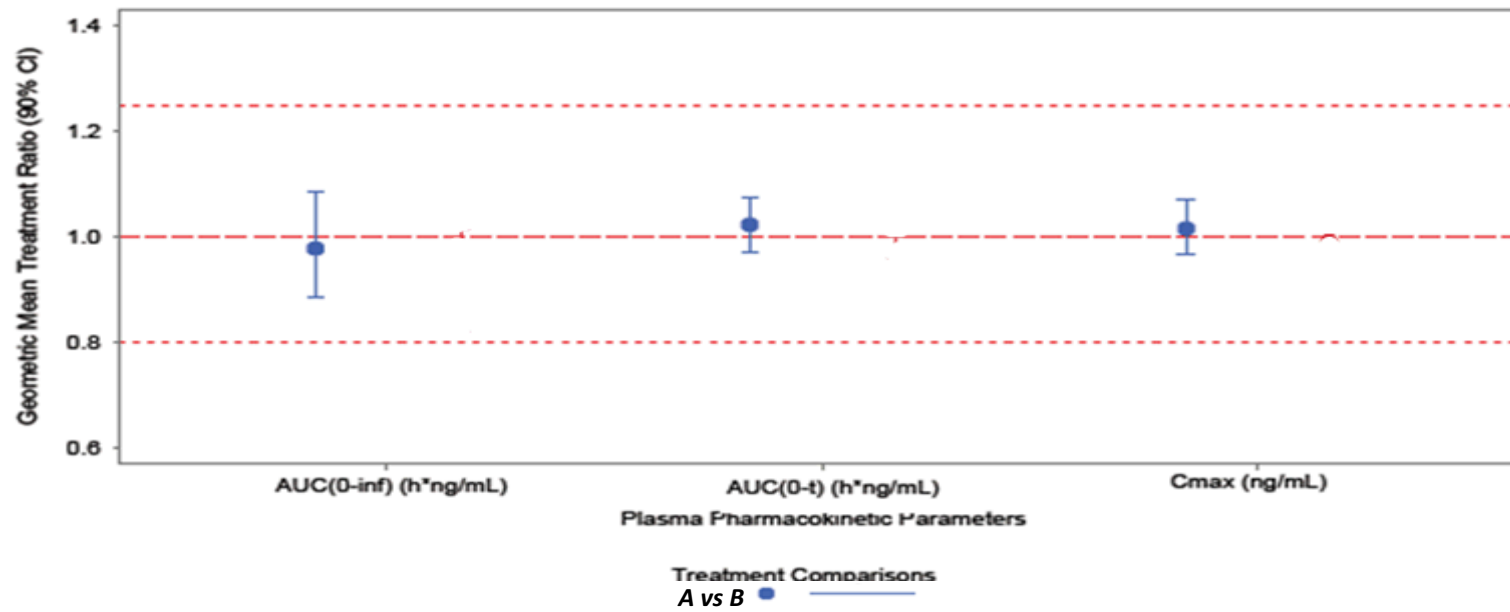


Programming note: add footnote for treatment A, B.

Example : PK_F2
Protocol : 204994
Population : PK Parameter BE Summary

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Figure xx.xx
Geometric Mean Treatment Ratio and 90% CI of DTG Plasma Pharmacokinetic Parameters



Note: The reference lines at ratios of 0.80, 1.25 represent BE criterion.

Programming note: add footnote for treatment A, B.

Example: SAFE_T1
 Protocol: 204994
 Population: Safety

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Table xx.xx
 Number of Subjects with Change from Baseline Vital Signs Category

| VSTEST | Pl. Time | Subject Position | Flagging category | Test (N=XX) | Reference (N=XX) |
|------------------------------------|----------|---------------------|-------------------|----------------|---------------------|
| Diastolic Blood Pressure (mmHg) | Time 1 | Supine | n | XX | XX |
| | | | Increase >=20 | 0 | XX (XX%) |
| | | | Increase >=40 | XX (XX%) | 0 |
| | | | Decrease >=20 | 0 | XX (XX%) |
| | | | Decrease >=40 | XX (XX%) | 0 |
| | Time 2 | Supine | n | XX | XX |
| | | | Increase >=20 | 0 | XX (XX%) |
| | | | Increase >=40 | XX (XX%) | 0 |
| | | | Decrease >=20 | 0 | XX (XX%) |
| | | | Decrease >=40 | XX (XX%) | 0 |

Example: SAFE_L1
Protocol: 204994
Population: Screening

Listing X
Listing of Subjects Excluded from Analysis Populations

| Population | No. of Subjects | No. of Subjects Excluded | Subject numbers |
|----------------------------------|--------------------|--------------------------------|---------------------|
| Screening | xxx | xx | xxx, xxx, xxx, xxx. |
| Safety | xx | 0 | |
| PK Plasma Concentration | xx | xx | xxx |
| PK Parameter BE Summary | xx | xx | xxx |
| PK Parameter Food Effect Summary | xx | xx | xxx |

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Example: PK_T3
Protocol: 204994
Population: PK Plasma Concentration

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Table x.xx
DTG Drug Concentration (unit) for the Test Formulation B

| ID | Seq | Period | Sampling Times (hours) | | | | | | | | | | | |
|------|--|--------|------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|------|
| | | | 0.0 | 0.33 | 0.66 | 1.0 | 1.5 | 2.0 | 3.0 | 4.0 | 6.0 | 8.0 | 12.0 | 16.0 |
| A | TR | 14 May | 0.00 | BLQ* | 52.01 | 95.03 | 122.20 | 77.88 | 65.15 | 46.24 | 19.20 | 14.99 | BLQ* | BLQ* |
| B | RT | 21 May | 0.00 | BLQ* | 56.66 | 80.85 | 102.00 | 86.41 | 63.81 | 49.20 | 24.00 | 11.37 | 8.24 | BLQ* |
| C | RT | 21 May | 0.00 | 28.63 | 201.50 | 189.80 | 188.70 | 136.20 | 97.64 | 64.53 | 32.08 | 20.63 | 14.59 | BLQ* |
| E | TR | 14 May | 0.00 | BLQ* | 9.04 | 34.32 | 47.70 | 52.79 | 59.47 | 32.61 | 17.61 | 8.76 | BLQ* | BLQ* |
| F | RT | 21 May | 0.00 | BLQ* | 55.33 | 66.40 | 58.97 | 48.29 | 43.19 | 34.23 | 17.30 | 6.15 | BLQ* | BLQ* |
| G | TR | 14 May | 0.00 | BLQ* | 33.15 | 45.64 | 54.19 | 34.13 | 32.78 | 21.73 | 10.75 | 8.35 | BLQ* | BLQ* |
| H | RT | 21 May | 0.00 | 35.38 | 79.14 | 100.90 | 70.71 | 48.43 | 30.73 | 26.19 | 8.65 | 6.83 | BLQ* | BLQ* |
| I | TR | 14 May | 0.00 | BLQ* | 64.57 | 76.52 | 89.51 | 86.21 | 69.04 | 50.96 | 21.55 | 13.71 | 7.55 | BLQ* |
| K | RT | 21 May | 0.00 | BLQ* | 79.34 | 99.41 | 154.80 | 58.60 | 57.12 | 32.57 | 19.82 | BLQ* | BLQ* | BLQ* |
| L | TR | 14 May | 0.00 | 14.78 | 55.54 | 56.88 | 46.87 | 37.29 | 28.75 | 25.20 | BLQ* | BLQ* | BLQ* | BLQ* |
| M | TR | 14 May | 0.00 | BLQ* | BLQ* | BLQ* | BLQ* | BLQ* | 8.37 | 23.15 | 19.74 | 16.49 | 5.74 | 5.18 |
| N | RT | 21 May | 0.00 | BLQ* | 37.76 | 28.58 | 21.56 | 19.02 | 13.25 | 12.44 | 6.38 | BLQ* | BLQ* | BLQ* |
| O | RT | 21 May | 0.00 | BLQ* | 27.85 | 43.30 | 43.30 | 32.57 | 29.59 | 25.42 | 16.89 | 7.68 | BLQ* | BLQ* |
| P | TR | 14 May | 0.00 | BLQ* | 68.25 | 52.57 | 51.97 | 28.64 | 23.70 | 12.74 | BLQ* | BLQ* | BLQ* | BLQ* |
| Q | RT | 21 May | 0.00 | BLQ* | 5.90 | 13.00 | 27.54 | 13.32 | 12.34 | 9.81 | 9.73 | BLQ* | BLQ* | BLQ* |
| R | TR | 14 May | 0.00 | BLQ* | 18.92 | 35.77 | 53.93 | 60.43 | 47.44 | 41.72 | 16.66 | 8.87 | 5.49 | BLQ* |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MEAN | - | - | 0.00 | 4.92 | 52.81 | 63.69 | 70.87 | 51.26 | 42.65 | 31.80 | 15.04 | 7.73 | 2.60 | 0.32 |
| STD | - | - | 0.00 | 11.26 | 47.05 | 45.04 | 49.76 | 33.66 | 24.64 | 15.42 | 8.60 | 6.57 | 4.42 | 1.29 |
| CV | - | - | - | 228.66 | 89.09 | 70.72 | 70.22 | 65.66 | 57.79 | 48.51 | 57.18 | 84.94 | 169.84 | 400 |
| * | Lower limit of quantitation is 5 ng/mL. Any concentration below this limit is reported as Below Limit of Quantitation (BLQ) except at time 0. Zero is used in the calculation of area under the curve (AUC) for times preceding the first observed concentration and in the calculation of summary statistics. | | | | | | | | | | | | | |

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Example: PK_T4
Protocol: 204994
Population: PK Plasma Concentration

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Table x.xx
DTG Parameter Estimates based on Actual Time for Each Subject Given the Test Formulation B

| ID | Seq | Period | TEST FORMULATION | | | | | | | | |
|-------|---|--------|-----------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------|-------------------------|-------------|-------------|-------------------------|
| | | | C _{max} (ng/mL) | t _{max} (h) | AUC _T (ng·h/mL) | AUC _I (ng·h/mL) | AUC _T (%) | λ (h ⁻¹) | TLIN (h) | LQCT (h) | t _{1/2} (h) |
| A | TR | 14 May | 122 | 1.50 | 365 | 409 | 89 | 0.3002 | 2.0 | 8.0 | 2.3 |
| B | RT | 21 May | 102 | 1.50 | 405 | 432 | 94 | 0.2384 | 3.0 | 12.0 | 2.9 |
| C | RT | 21 May | 202 | 0.66 | 703 | 774 | 91 | 0.1776 | 4.0 | 12.0 | 3.9 |
| E | TR | 14 May | 59 | 3.00 | 233 | 256 | 91 | 0.3680 | 3.0 | 8.0 | 1.9 |
| F | RT | 21 May | 66 | 1.00 | 247 | 265 | 93 | 0.3902 | 3.0 | 8.0 | 1.8 |
| G | TR | 14 May | 54 | 1.50 | 178 | 205 | 87 | 0.2768 | 3.0 | 8.0 | 2.5 |
| H | RT | 21 May | 101 | 1.00 | 246 | 263 | 94 | 0.3437 | 2.0 | 8.0 | 2.0 |
| I | TR | 14 May | 90 | 1.50 | 408 | 433 | 94 | 0.2486 | 3.0 | 12.0 | 2.8 |
| K | RT | 21 May | 155 | 1.50 | 315 | 372 | 85 | 0.3379 | 3.0 | 6.0 | 2.1 |
| L | TR | 14 May | 57 | 1.00 | 140 | 331 | 42 | 0.1318 | 3.0 | 4.0 | 5.3 |
| M | TR | 14 May | 23 | 4.00 | 165 | 195 | 85 | 0.1485 | 6.0 | 16.0 | 4.7 |
| N | RT | 21 May | 38 | 0.66 | 88 | 113 | 78 | 0.2620 | 2.0 | 6.0 | 2.6 |
| O | RT | 21 May | 43 | 1.00 | 183 | 215 | 85 | 0.2671 | 3.0 | 8.0 | 2.6 |
| P | TR | 14 May | 68 | 0.66 | 122 | 148 | 83 | 0.5031 | 1.5 | 4.0 | 1.4 |
| Q | RT | 21 May | 28 | 1.50 | 68 | 113 | 60 | 0.1833 | 1.5 | 6.0 | 3.8 |
| R | TR | 14 May | 60 | 2.00 | 275 | 292 | 94 | 0.2546 | 3.0 | 12.0 | 2.7 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| MEAN* | - | - | 79 | 1.50 | 259 | 301 | 84 | 0.2770 | 3.0 | 8.0 | 2.8 |
| STD | - | - | 48 | 0.89 | 158 | 164 | 14 | 0.0967 | 1.1 | 3.3 | 1.1 |
| CV | - | - | 61 | 59.35 | 61 | 54 | 17 | 34.92 | 37.3 | 38.5 | 37.9 |
| * | for t _{max} , TLIN, and LQCT, these are medians. | | | | | | | | | | |

Example: PK_T5
 Protocol: 204994
 Population: PK Parameter BE Summary

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Table x.xx
 DTG Parameter Analysis - Data based on Actual Time - Bioequivalence Assessment

| ID | Raw Scale | | | Log Scale | |
|------|-----------|----------------|-------------------|---------------|--------------------|
| | Test AUCT | Reference AUCT | Relative AUCT (%) | Test ln(AUCT) | Reference ln(AUCT) |
| A | 365 | 375 | 97 | 5.8998 | 5.9269 |
| B | 405 | 595 | 68 | 6.0038 | 6.3885 |
| C | 703 | 471 | 149 | 6.5553 | 6.1548 |
| E | 233 | 190 | 123 | 5.4510 | 5.2470 |
| F | 247 | 257 | 96 | 5.5093 | 5.5490 |
| G | 178 | 175 | 102 | 5.1817 | 5.1647 |
| H | 246 | 382 | 65 | 5.5053 | 5.9454 |
| I | 408 | 361 | 113 | 6.0112 | 5.8888 |
| K | 315 | 218 | 144 | 5.7525 | 5.3844 |
| L | 140 | 92 | 153 | 4.9416 | 4.5217 |
| M | 165 | 269 | 61 | 5.1059 | 5.5947 |
| N | 88 | 106 | 83 | 4.4773 | 4.6634 |
| O | 183 | 290 | 63 | 5.2094 | 5.6698 |
| P | 122 | 230 | 53 | 4.8040 | 5.4380 |
| Q | 68 | 144 | 47 | 4.2195 | 4.9698 |
| R | 275 | 344 | 80 | 5.6167 | 5.8406 |
| . | . | . | . | . | . |
| . | . | . | . | . | . |
| . | . | . | . | . | . |
| MEAN | 259 | 281 | 94 | 5.3903 | 5.5217 |
| STD | 158 | 136 | 35 | 0.61 | 0.52 |
| CV | 61 | 48 | 37 | - | - |