



Checklist for the Clinical Part Module 5: Bioequivalence



February 2022

Information/Document(s) required	File Description	Page
Letter from the company (signed and dated) explaining		
your application and describing the content of all		
submitted files.		
Study Protocol		
Amendment to the study protocol (if available).		
Study report		
Study duration		
Manufacturer/Sponsor		
Copy of all investigators CV		
Certificate of analysis for both reference and test		
products.		
Information about the Test Product [Brand Name,		
Dosage, Pharmaceutical form, Manufacturer, Batch		
number, Manufacturing date, Expiry date]		
Information about the Reference Product [Brand		
Name, Dosage, Pharmaceutical form, Manufacturer,		
Batch number, Manufacturing date, Expiry date] Evidence showing that the reference product is used		
according to FDA or EMEA lists.		
Therapeutic class	and the second second	
Information about the CRO [Name, Country, Address,		
Clinical (hospital), Medical Laboratory (for screening		
examination), Analytical Facility, Pharmacokinetic		
studies, Statistical analysis].		
Study design		
Information showing if the study was conducted		
according to FDA/EMA/others guidelines.		
API Pharmacokinetic Properties		
Evidence that the Medical Laboratory (for screening		
examination) meets GLPs as certified by an authorative		
agency.		
Signed Informed consent form for all participants		
IRB protocol approval (Signed and dated)		-
Official certificates of GCP and GLP compliances.		
	A	
Quality assurance audits performed by the CRO with dates		
and signatures.	1.54	
Sample size calculation and sample size recruited	- A -	
Screening examination data and individual Case Report		
Form (CRF) for all participants.		
List of all adverse events (AE) encountered		
Subjects demographic data (Gender, Age, Weight,		
Height, BMI, etc)		
Period I and Period II description and Washout period		
Blood Samples description [Anticoagulant, number of		
samples and blood volume (per subjects and per period),		
storage conditions,		
In vitro Dissolution Profile [Medium composition,		
		1

Valence (
Volume (mL), Duration, Difference factor (f1), Similarity factor (f_{1}) , dissolution relat	
factor (f2), dissolution plot]. Analytical method [Analytical method and detector,	
materials, solvents and equipment used. Method of	
preparation of the stock solutions, calibration standards	
and sample handling].	
Analytical Validation method in stock solution and	
plasma samples [Linearity (Linearity zone, Standard	
curve equation, R^2), Recovery, Inter-day and Intra-day	
Accuracy, Inter-day and Intra-day Precision, Stability	
(Short term, Long term, Freeze/thaw stability,	
autosampler), Specificity, Robustness, Sensitivity	
(LLOD, LLOQ), Quality control samples (Low QC,	
Medium QC, High QC)	2.3
Analytical spectrums for a minimum of 20% of all subjects	
Copy of chromatograms realized in analytical section	
(Analytical validation).	
Raw data (as Excel sheet) for all analytical validation	
method.	
Pharmacokinetic Parameter calculation (Cmax, AUC _{0-t} ,	
AUC $_{0\to\infty}$, Half-life (t _{1/2}), K _e , T _{max}) with 90% Confidence	
Interval, and Intra-subject variability for Cmax, $AUC_{0\rightarrow t}$,	
AUC $_{0\to\infty}$.	
Data related to plasma concentration for all subjects and at	
all time points (as excel sheet).	
The mean plasma concentration vs. time plot in linear	
scale (with SEM/SD error bars on each point).	
The mean plasma concentration vs. time plot in <u>semi-</u>	
logarithmic scale (with SEM/SD error bars on each	
point).	
Individual plasma concentration vs. time plot in <u>linear</u>	
scale for all subjects (no more than 2 plots per page is allowed).	
Individual plasma concentration vs. time plot in <u>semi-</u>	
logarithmic scale for all subjects (no more than 2 plots	
per page is allowed).	
In case the criteria are different than $80 - 125\%$, the	
sponsor should provide detailed explanation and provide	
additional references that allow such modification. Any	1.0.01
intra-subject variability should also be discussed	
according to literature.	
Statistical analysis: ANOVA data (and p-value) for the	
different sources: Period, Subject within the sequence,	
Formulation, Sequence, performed on the different PK	
parameters (Cmax, AUC _{0\rightarrowt} , AUC _{0$\rightarrow\infty$} , etc).	
Sponsor should provide explanation or additionnal tests in	
case any p-value in the statistical analysis section is < 0.05	
(Statistically significant).	
(Statistically significally).	