

## In Silico Bioequivalence - Non-Proportional Formulation

In Silico trial to replace Bioequivalence trial for non-proportional formulation

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**Background:** The Sponsor intended to have a biowaiver for the non-proportional lower strength. The Sponsor had performed a BA BE study with the higher strength.

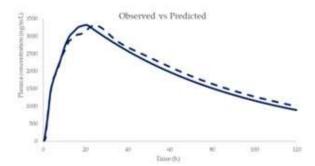
**Question of Interest:** Could Modeling and Simulation replace the BA BE trial by an in silico BA BE?

**Methods:** BA BE data of the higher strength and PK data of the reference for the lower strength were used in the analysis.

The in-silico BA BE trial was performed by means of IVIVC modeling.

## **Results:**

A validated IVIVC model (see figure) was developed and used to simulate the BA BE trial.



## Impact:

- The Agency accepted the Sponsor's clinical development program including the insilico BA BE study.
- The Sponsor reduced costs and timelines by waiving off the BA BE study for lower strengths.