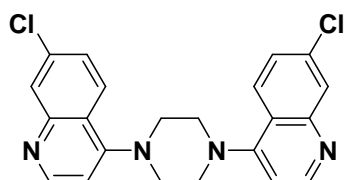


CERTIFICATE OF ANALYSIS

Reference Substance

Date:

Piperaquine Impurity (IV)**Batch No.****IUPAC Name:** 1,4-bis(7-chloroquinolin-4-yl)piperazine

Molecular Weight: 409.31

Molecular Formula: C₂₂H₁₈Cl₂N₄

Sr.#	Test	Results	Data ref.
1	Appearance	Light Yellow Powder	-----
2	Purity By HPLC	97.97%	Report attached
3	Mass	Conform	Report attached
4	NMR	Conform	Report attached

Storage condition: Store at 2-8 degree, protect from direct sunlight and moisture.

This certificate of analysis is valid for two years from date of manufacturing, provided the substance is stored under suitable conditions.

Manufacturing date:**Retest Date:****Document data reference:***Prepared by**Reviewed by**Approved by*