

# Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0021	
Compound name	R-CPP	
Chemical name	(R)-3-(2-Carboxypiperazin-4-yl)propyl-1-phosphonic acid	
Batch number	E1509-4-13	
Batch molecular formula	C <sub>8</sub> H <sub>17</sub> N <sub>2</sub> O <sub>5</sub> P·H <sub>2</sub> O	
Batch molecular weight	270.22	
Method	QC requirement	QC Result
NMR	1H NMR in D <sub>2</sub> O at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray negative analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 50% PAW:BuOH shows one spot under ninhydrin	Meets specification: R <sub>f</sub> =0.1
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

14-05-21

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.