## **Certificate of Analysis**



Meets specification

Product Identification		Chemical Structure
Catalog number	HB2617	CH3
Compound name	Diphenhydramine hydrochloride	
Chemical name	2-Diphenylmethoxy-N,N-dimethylethanamine	HCI CH <sub>3</sub>
Batch number	E2270-1-1	
Batch molecular formula	C <sub>17</sub> H <sub>21</sub> NO.HCl.0.1H <sub>2</sub> O	
Batch molecular weight	293.62	
Method	QC requirement	QC Result
Method	Qui requirement	dertooun
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
HPLC NMR	Reverse Phase HPLC shows >98% purity 1H NMR in $D_2O$ at 400 MHz consistent with structure Electrospray positive analysis consistent with	Meets specification: 100% Meets specification

Soluble in water (100 mM)

Solubility

 Produced by Richard Patterson
 Signature

 Passed by Steve Roome
 Signature

 Date
 06/07/2023

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