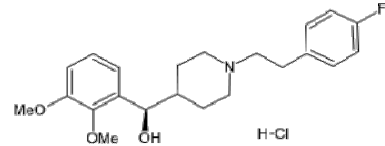


# Certificate of Analysis



## Product Identification

Catalog number	HB12412
Compound name	MDL100,907 hydrochloride
Chemical name	(R)-(+)- $\alpha$ -(2,3-Dimethoxyphenyl)-1-[2-(4-fluorophenyl)ethyl]-4-piperinemethanol hydrochloride
Basic molecular formula	C <sub>22</sub> H <sub>28</sub> FNO <sub>3</sub> ·HCl
Basic molecular weight	409.92
Batch number	E2845-1-3
Batch molecular formula	373.47
Batch molecular weight	427.94
Origin	Synthetic



## Chemical Structure

## Method

## QC requirement

## QC Result

HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.1%
NMR	<sup>1</sup> H NMR in D <sub>2</sub> O at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive/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 10% methanol/ dichloromethane shows one spot under UV and KMnO <sub>4</sub>	Meets specification: R <sub>f</sub> =0.28
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100mM)	Meets specification

## Biological validation

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

28/11/2024

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