



## Certificate of Analysis

Product Name	Propranolol HCl
Catalog No.	V1152
Batch No.	V115201

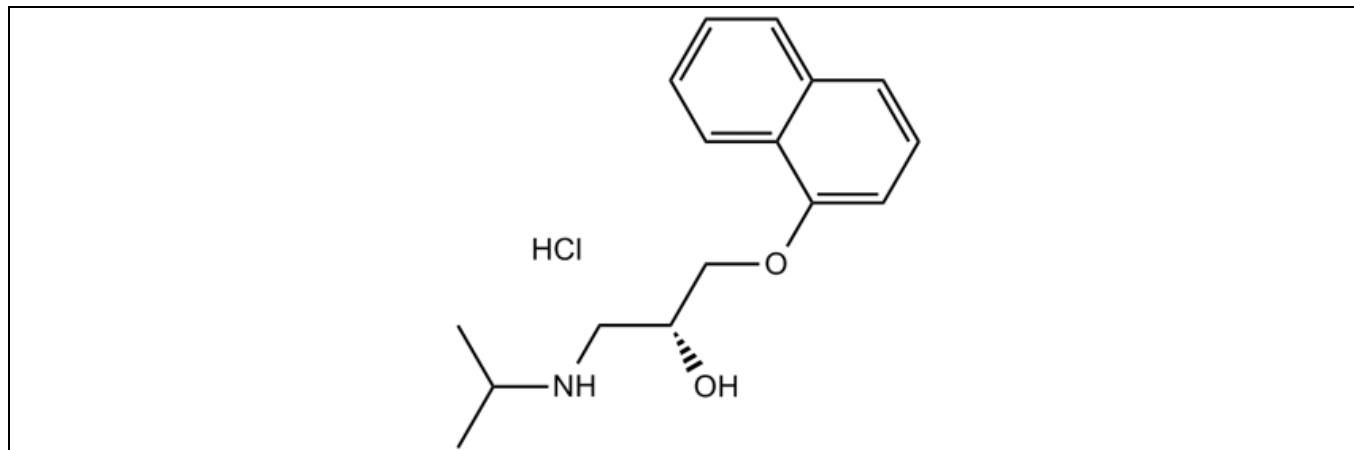
### 1. Physical and Chemical Properties

Appearance	Powder
Molecular Formula	C <sub>16</sub> H <sub>21</sub> NO <sub>2</sub> .HCl
Molecular Weight	295.8
Purity	≥98.0%
CAS No.	318-98-9

### 2. Analytical Data

HPLC	Indicates ≥98.0% purity
NMR	Consistent with structure
Mass Spectrum	Consistent with structure

### 3. Structure



### 4. Storage Condition

Short term storage (weeks)	0 - 4 °C under dry condition
Long term storage (months)	-20 °C under dry condition

Products are for research use only • Not for human or veterinary use