

# **CERTIFICATE OF ANALYSIS**

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#### 1. Identification

Catalogue Number: E913100 CAS Number: 190850-49-8

**Synonym:** a-[3-[[2-(3,4-

**Product:** a-Ethyl-a-(1-demethylethyl)-Verapamil Hydrochloride

Dimethoxyphenyl)ethyl]methylamino]propyl]-a-ethyl-3,4-dimethoxy-benzeneacetonitrile Monohydrochloride; Verapamil Impurity H;

Verapamil EP Impurity H HCl;

Structure:

MeO Me Me Me HCI

Molecular Formula: C26H36N2O4 ● HCl

Molecular weight: 440.58 + 36.46 Source of Product:

Synthetic **Solubility:** 

Ethanol (Slightly), Water

(Slightly)

Lot 4-SKR-182-1

Purity: 96%

**Shipping** This Product Is Stable To Be **Condition:** Shipped At Room Temperature

Storage Condition: 4°C

### 2. Warning

Warning 1: Warning 2: Warning 3:

#### 3. Analytical Information

Tests: Specifications: Results:

Appearance Off-White to Light Beige Solid Pale Beige Solid

NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 61.88, %H: 7.99, %N: 5.95

HPLC Purity Report Result 96.68% (230 nm)

MS Conforms to Structure Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm$  2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

## 4. Signatures

Reviewed ByReviewed ByC of A Approved ByTest DateRetest DateMeenakshi SharmaToni RantanenChristina Gouliaras2/23/20242/21/2028

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