

CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

Catalogue D288740

Product: N-Des[2-(2-hydroxyethoxy)ethyl] Quetiapine Dihydrochloride

Structure:

N—
N—
• 2 HCI

Lot Number: 19-SBL-144-2

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

CAS Number: 111974-74-4

Synonym: 11-(1-Piperazinyl)-dibenzo[b,f][1,4]thiazepine

Dihydrochloride; DBTP; Norquetiapine;

Quetiapine EP Impurity B;

Molecular Formula: C₁₇H₁₇N₃S • 2HCl Molecular weight: 295.4 + 2(36.46) Source of Product:

N/A Solubility:

DMSO (Slightly, Heated, Sonicated), Ethanol (Slightly, Heated), Methanol (Slight

Purity: 97%

Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Elemental Analysis Conforms %C: 49.79, %H: 5.88, %N: 10.25

Appearance White to Pale Yellow Solid Off-White to Pale Yellow Solid

NMR Conforms to Structure Conforms
MS Conforms to Structure Conforms

HPLC Purity Report Result 100.00% (210 nm)
Water Content Report Result 7.9% by Karl Fischer

Chloride Content Report Result 17.5%

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 DateNeha KhannaToni RantanenChanell Chu11/22/202111/20/2025

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