

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue D418698 Number:

4-Dibenzo[b,f][1,4]thiazepin-11-yl-Product:

1-piperazineethanol

Structure:

.OH

CAS

329216-67-3 Number: Synonym:

2-[4-(Dibenzo[b,f][1,4]thiazepin-11-

yl)piperazin-1-yl]ethanol; Quetiapine EP

Impurity I;

Molecular Formula:

C19H21N3OS

Molecular weight:

339.45

Source of Product:

N/A

Solubility:

Chloroform (Slightly), DMSO (Slightly), Ethanol (Slightly),

Methanol (Slightly)

Lot 2-HBS-75-1 Number:

This Product Is Stable To Be Shipping

Condition: Shipped At Room Temperature **Purity:** 97%

Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

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

NMR Conforms to Structure Conforms MS Conforms to Structure Conforms

99.58% (205 nm) **HPLC Purity** Report Result

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

C of A Approved **Test Date Reviewed By Reviewed By Retest Date** By Chanell Chu Nicole Yip Toni Rantanen 12/5/2022 12/3/2026