

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

Structure: H₃CO

Catalogue D289335 CAS 75472-91-2 Number: Number:

> Synonym: (2S,3S)-5-[2-(Dimethylamino)ethyl]-2,3-

> > dihydro-3-hydroxy-2-(4-methoxyphenyl)-1,5-

benzothiazepin-4(5H)-one

Monohydrochloride; (2S-cis)-5-[2-(Dimethylamino)ethyl]-2,3-dihydro-3hydroxy-2-(4-methoxyphenyl)-1,5-

benzothiazepin-4(5H)-one

Monohydrochloride; Deacetyldiltiazem

Hydrochloride

Molecular Formula:

C20H24N2O3S • HCl

Molecular weight:

372.48 + (36.46)

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly), Methanol

(Slightly)

Purity:

97%

Storage Condition: -20°C

Lot Number:

1-KYM-177-7

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

Product: Desacetyl Diltiazem Hydrochloride

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Specifications: Tests: Results:

Elemental Conforms %C: 57.09, %H: 6.37, %N: 6.74 **Analysis**

· HCI

HPLC Purity Report Result 98.45% (210 nm)

MS Conforms to Structure Conforms **NMR** Conforms to Structure Conforms

Appearance White to Off-White Solid White to Off-White Solid

Specific Rotation Report Result $+169.9^{\circ}$ (c = 0.1, Chloroform) Chloride Content Report Result 8.49% by Ion Chromatography

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 ± 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 By
Henry Tieu

Reviewed ByToni Rantanen

C of A Approved By Chanell Chu

5/5/2022

Test Date

Retest Date

0.

4070

Ganell Gru

5/3/2026