



CERTIFICATE OF ANALYSIS

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1. Identification

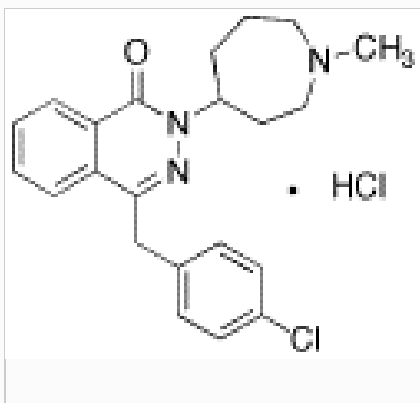
Catalogue Number: A808250

CAS Number: 79307-93-0

Product: Azelastine Hydrochloride

Synonym: 4-[(4-Chlorophenyl)methyl]-2-(hexahydro-1-methyl-1H-azepin-4-yl)-1(2H)-phthalazinone Hydrochloride; Afluon; Allergodil; Astelin; Azeptin; Optilast; Rhinolast; A-5610; E-0659; W-2979M;

Structure:



Molecular Formula:

C₂₂H₂₅Cl₂N₃O

Molecular weight:

418.36

Source of Product:

N/A

Solubility:

Chloroform (Slightly), DMSO (Slightly), Methanol (Slightly), Water (Slightly)

Lot Number: 2-XJZ-7-1

Purity: 98%

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

Storage Condition: -20°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 63.02, %H: 5.74, %N: 9.97
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+0.4° (c = 0.5, Methanol)
HPLC Purity	Report Result	99.96% (210 nm)

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol : Ammonium Hydroxide = 9 : 1 : 0.2; Visualized with UV and KMnO₄; Single Spot, R_f = 0.55. Elemental Analysis: (Theoretical) %C: 63.16, %H: 6.02, %N: 10.04

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	Reviewed By	C of A Approved By	Test Date	Retest Date
Eric Beaton	Toni Rantanen	My Nguyen	2/26/2020	2/24/2030
				