CERTIFICATE OF ANALYSIS

(Certificate No. SZ-A043024-1043)

N-Nitroso Desmethyl Azelastine

Identification

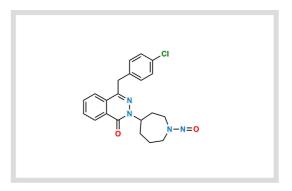
Chemical Name : 4-(4-Chlorobenzyl)-2-(1-nitrosoazepan-4-yl)phthalazin-1(2H)-one

CAT No. : SZ-A043024

CAS No. : NA

Molecular Formula : C21H21ClN4O2

Molecular Weight : 396.9



Analytical Information

Batch Code : SRL-1012-132 HPLC Purity : 99.38 %

Solubility : ACN:Water (1:1) Mass : Confirm

Appearance of product: Off White Solid IR Analysis: Confirm

Long Term Storage : 2–8 °C for long term storage 1H NMR : Confirm

Weight Loss By TGA : 0.31 % 13C NMR : Confirm

Residue On Ignition : 0.20 % DEPT Analysis : Confirm

Additional Information

% Potency = [100 – 0.31 (Wt loss by TGA) – 0.20(ROI)] X [99.38 (HPLC Purity)] / 100 = 98.87 %

-Mixture of E/Z Isomers.

Elemental Analysis (Theoretical) : %C: 63.55 %H: 5.33 %N: 14.12 %S: 0.00 Elemental Analysis (Practical) : %C: 63.08 %H: 5.11 %N: 13.75 %S: 0.00

Recommendation : Released

	Department	Signature	Date
Prepared and Reviewed by	Analytical		
Approved By	Quality Control		

Attachments : HPLC, Mass, 1H NMR, IR, TGA, 13C NMR, DEPT, ROI, CHNS

Shipping Condition : All Products are stable to be shipped at room temperature, unless otherwise specified.



=== SynZeal HPLC Report ===

Sample Name : Blank Program : Gradient Sample ID : Diluent Column Temp : 40 °C Column Name : Acquity UPLC BEH Vial : 1:A,1

Column ID : SRL/C18/2022/219 Injection Volume : 0.20 ul

Column Desc. : 50 mm * 2.1 mm; 1.7µ Sample Conc. : -

Diluent : ACN:H2O (8:2) Flow Rate : 0.5 mL/min

Mobile Phase_A : 0.1 % TFA in water

Mobile Phase_B : ACN:H20 (90:10)

Method Name : SZ_UPLC_RA_AKIRA_01

Gradient:

=> T(min)/%B 0.01-2.5/10-100 -> 2.5-3.5/100 -> 3.5-3.6/100-10 -> 3.6-5.0/10

Sample Set Name: 2022_11_30_UPLC_02

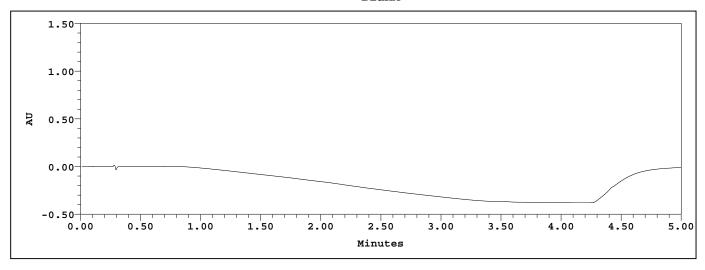
Date Acquired: 30-11-2022 13:44:29 IST

Date Processed: 01-12-2022 11:30:48 IST

Acquired By : Preeti_Pal

Chromatogram

Blank



Channel Name 210.0nm

Results

	Retention Time (min)	Area (µV*sec)	Height (μV)	% Area
1				
Sum				



=== SynZeal HPLC Report ===

Sample Name : SRL-1012-132 Program : Gradient Sample ID : Azelastine Column Temp : 40 °C Column Name : Acquity UPLC BEH Vial : 2:A,8

Diluent : ACN:H2O (8:2) Flow Rate : 0.5 mL/min

Mobile Phase_A : 0.1 % TFA in water

Mobile Phase_B : ACN:H20 (90:10)

Method Name : SZ_UPLC_RA_AKIRA_01

Gradient:

=> T(min)/%B 0.01-2.5/10-100 -> 2.5-3.5/100 -> 3.5-3.6/100-10 -> 3.6-5.0/10

Sample Set Name: 2022_11_30_UPLC_02

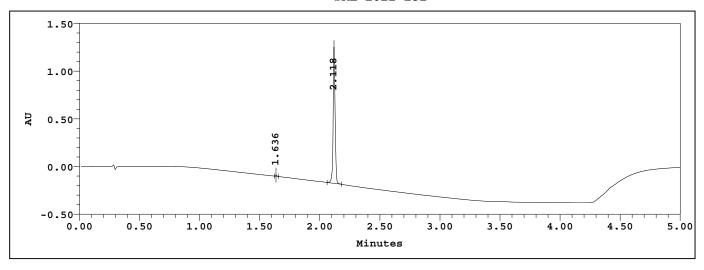
Date Acquired: 30-11-2022 14:37:42 IST

Date Processed: 01-12-2022 11:31:12 IST

Acquired By : Preeti_Pal

Chromatogram

SRL-1012-132



Channel Name 210.0nm

Results

	Retention Time (min)	Area (µV*sec)	Height (μV)	% Area
1	1.636	9796	11522	0.61
2	2.118	1593991	1434233	99.39
Sum				100.0