

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 T296100 CAS 522-48-5 Number: Number:

Synonym: 4,5-Dihydro-2-(1,2,3,4-tetrahydro-1-

naphthalenyl)-1H-imidazole Hydrochloride;

Murine Plus; Soothe; Tetryzoline

hydrochloride; Tinarhinin; Tizine; Tyzanol; Tyzanol hydrochloride; Tyzine; Tyzine hydrochloride; Visine; Visine hydrochloride;

6/24/2027

Vislin; Yxin;

Structure:

HNHCI

Molecular Formula:

C13H17CIN2

Molecular weight:

236.74

Source of Product:

N/A

Solubility:

Methanol (Slightly), Water

6/26/2023

(Slightly)

Purity: 96%

Storage

Condition: 4°C

Number:

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

4-XJZ-49-1

Product: Tetrahydrozoline Hydrochloride

2. Warning

Lot

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

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

HPLC Purity Report Result 95.87% (215 nm)

NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 65.91, %H: 7.19, %N: 11.36

MS Conforms to Structure Conforms

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

C of A Approved **Test Date Reviewed By Retest Date Reviewed By** By Meenakshi Sharma Toni Rantanen Christina Gouliaras

Dolwin