



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 Number:	T535477	CAS Number:	1185160-65-9
Product:	Tolperisone-d10 Hydrochloride	Synonym:	2-Methyl-1-(4-methylphenyl)-3-(1-piperidinyl-d10)-1-propanone Hydrochloride;
Structure:		Molecular Formula:	C ₁₆ H ₁₄ D ₁₀ CINO
		Molecular weight:	291.88
		Source of Product:	Synthetic
		Solubility:	Chloroform (Slightly), Methanol (Slightly)
Lot Number:	4-XAL-26-4	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: 66.34, %H: 8.44, %N: 4.57
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.0%
Specific Rotation	Report Result	-0.1° (c = 0.2, Methanol)
HPLC Purity	>95%	97.95% (260 nm)

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol = 8 : 2; Visualized with UV and AMCS; Single Spot, R_f = 0.75. Elemental Analysis: (Theoretical) %C: 65.84, %H: 8.31, %N: 4.80 Normalized Intensity: d₀ = 0.09%, d₁ = 0.18%, d₂ = 0.10%, d₃ = 0.03%, d₄ = 0.02%, d₅ = 0.09%, d₆ = 0.03%, d₇ = 0.03%, d₈ = 0.45%, d₉ = 5.12%, d₁₀ = 93.87%

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
Neha Khanna	Eric Beaton	My Nguyen	10/1/2019	9/29/2029

