



CERTIFICATE OF ANALYSIS

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1. Identification

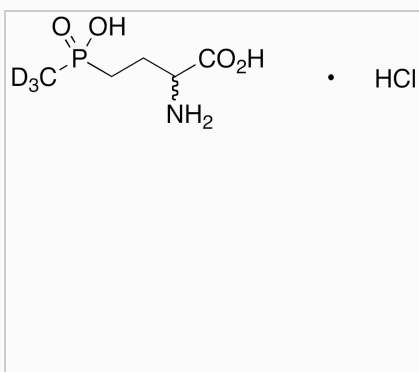
Catalogue Number: G596952

CAS Number: 1323254-05-2

Product: Glufosinate-d3 Hydrochloride

Synonym: 2-Amino-4-(hydroxymethylphosphinyl)butanoic Acid-d3 Hydrochloride; DL-Phosphinothricin-d3 Hydrochloride;

Structure:



Molecular Formula:

C₅H₉D₃NO₄P • HCl

Molecular weight:

220.61

Source of Product:

Synthetic

Solubility:

Methanol (Slightly, Heated, Sonicated), Water (Slightly)

Lot Number: 12-NZZ-21-3

Purity: 98%

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Pale Beige Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 27.27, %H: 6.06, %N: 6.26
HPLC Purity	Report Result	99.90% (ELSD)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.8%
Chloride Content	Report Result	14.68% by Ion Chromatography
Specific Rotation	Report Result	-0.4° (c = 0.5, Water)
P NMR	Conforms to Structure	Conforms

Additional Information:

Normalized Intensity: d0 = 0.00%, d1 = 0.29%, d2 = 0.00%, d3 = 99.71%

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
Swathi Reddy	Toni Rantanen	Chanell Chu	2/14/2023	2/12/2027
