

Certificate of Analysis

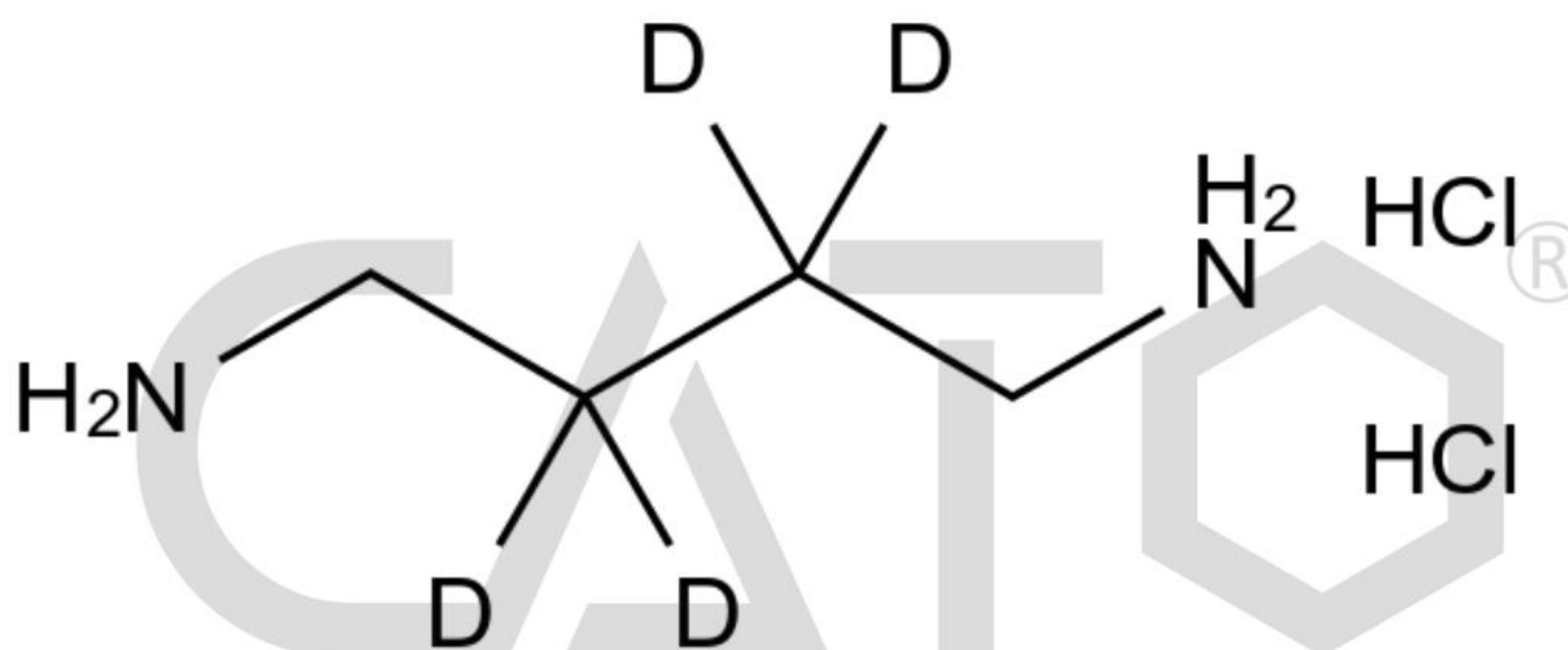
Reference Material & Standard

Product Name:	1,4-Butane-2,2,3,3-d4-diamine 2HCl	Catalogue Number:	CCHM705777
Synonyms:	N/A	Lot Number:	0923-RE-0012
CAS Number:	88972-24-1	Expiry Date:	Oct 05, 2025
Molecular Formula:	C ₄ H ₈ D ₄ N ₂ 2*HCl	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	92.18 2*36.46	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	HRMS&HNMR	Confirmed
Chemical Purity	HPLC	100.0%
Isotopic Purity		98.99%
Uncertainty		±2.0%

Comment:

1. Chloride Content: 41.17% by Ion Chromatography
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Sep 25, 2023

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