

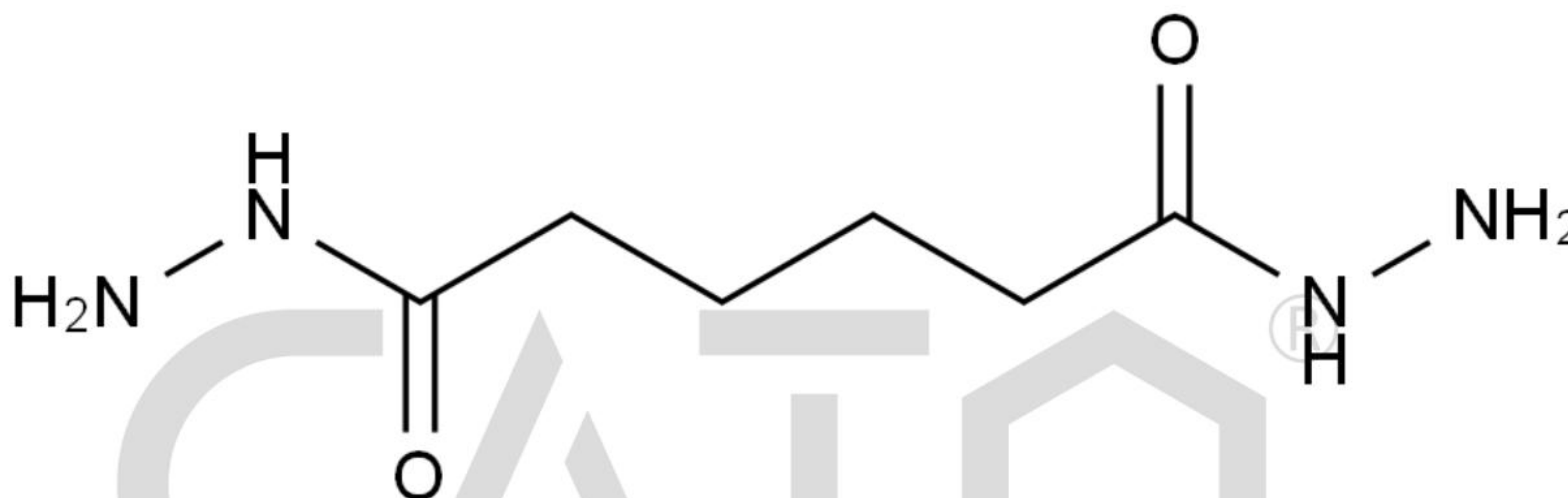
Certificate of Analysis

Reference Material & Standard

Product Name:	Adipic Dihydrazide	Catalogue Number:	CCHM701399
Synonyms:	N/A	Lot Number:	0430-RB-0018
CAS Number:	1071-93-8	Expiry Date:	Jul 31, 2028
Molecular Formula:	C ₆ H ₁₄ N ₄ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	174.20	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.4466%
Loss On Drying	TGA	0.5085%
Assay		98.9%
Uncertainty		±2.0%

Comment:

- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity ELSD (\%)} / 100\%$$
 Loss On Drying is considered as absolute effect, ELSD purity is considered as relative effect.
- 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:

Nice

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 01, 2024

Date: Aug 01, 2024

Date: Aug 01, 2024

