

Certificate of Analysis

Reference Material & Standard

Product Name:	D-Citrulline	Catalogue Number:	CCFD200716
Synonyms:	N/A	Lot Number:	0705-RF-0078
CAS Number:	13594-51-9	Expiry Date:	Jul 11, 2028
Molecular Formula:	C ₆ H ₁₃ N ₃ O ₃	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	175.19		

Warning:



Chemical Structure: N/A

Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Loss on Drying	TGA	1.2907%
Assay		98.7%
Uncertainty		±2.0%

Comment:

CATO Research Chemicals Inc.

1. The calculation of the mass balance 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.

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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 12, 2024

Date: Jul 12, 2024

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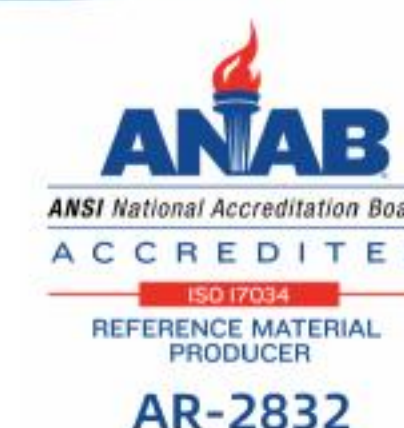
Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

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