

Certificate of Analysis

Reference Material & Standard

Product Name:	Thioctic Acid EP Impurity A	Catalogue Number:	C4X-15182
Synonyms:	N/A	Lot Number:	0408-RH-0051
CAS Number:	1204245-29-3	Expiry Date:	Apr 06, 2030
Molecular Formula:	C ₈ H ₁₄ O ₂ S ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	238.39	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	GCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.210%
Residue on Ignition	TGA	0.2534%
Loss on Drying	TGA	0.3166%
Assay		98.6%

Comment:

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

Assay (%) = (100% - Residue on Ignition - Loss on Drying) * Purity HPLC (%) / 100%

Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

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Reviewed by:

Koi

Approved by General Manager:

David

Date: Jun 12, 2026

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