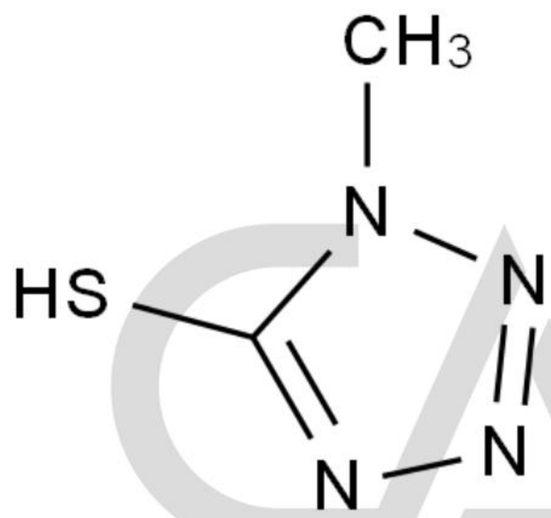
Certificate of Analysis

Reference Material & Standard

Product Name:	Cefamandole Nafate EP Impurity D	**Catalogue Number:**	C4X-19261
Synonyms:	N/A	**Lot Number:**	F9-12-4
CAS Number:	13183-79-4	**Expiry Date:**	Sep 13, 2030
Molecular Formula:	$C_2H_4N_4S$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	116.14	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	100.000%
Loss on Drying	TGA	0.1329%
Assay	Mass Balance	99.9%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Alice Date: Nov 09, 2026

Reviewed by: Koi Date: Nov 09, 2026

Approved by General Manager: David Date: Nov 09, 2026

CATO Research Chemicals Inc.