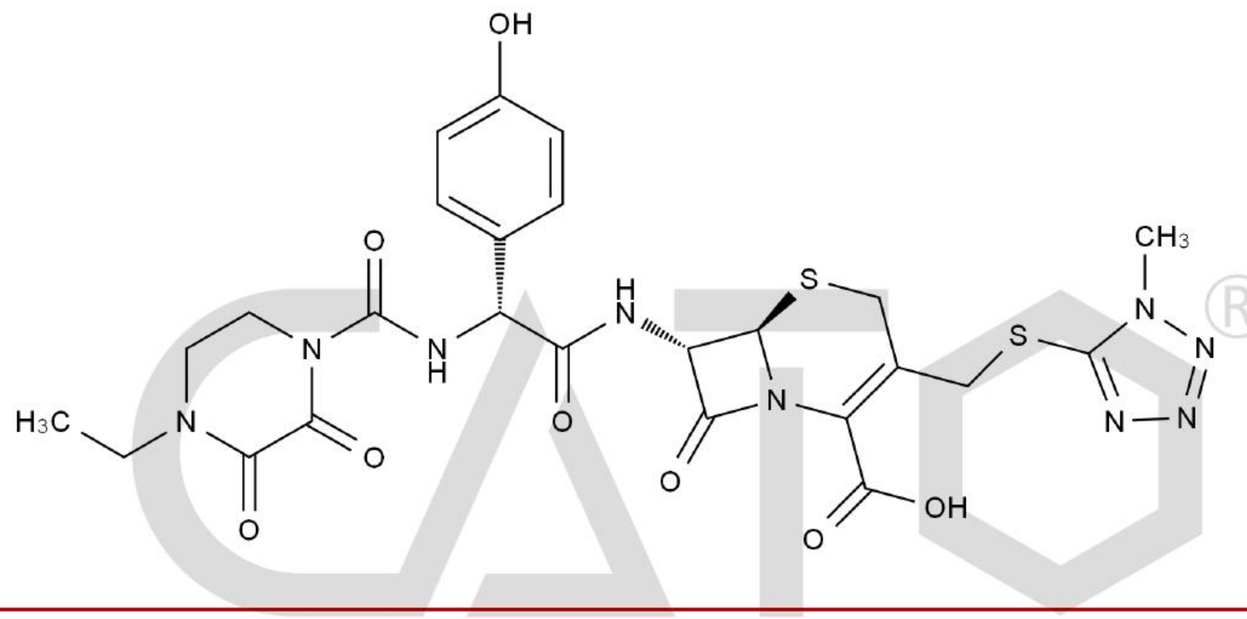
Certificate of Analysis

Reference Material & Standard

Product Name:	Cefoperazone EP Impurity F	**Catalogue Number:**	C4X-11496
Synonyms:	N/A	**Lot Number:**	0403-RG-0038
CAS Number:	1315481-36-7	**Expiry Date:**	Apr 09, 2028
Molecular Formula:	$C_{25}H_{27}N_9O_8S_2$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	645.67	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	96.892%
Loss on Drying	TGA	1.3296%
Assay		95.6%

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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: Koi Date: Sep 10, 2026

Reviewed by: Lisa Date: Sep 10, 2026

Approved by General Manager: David Date: Sep 10, 2026

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