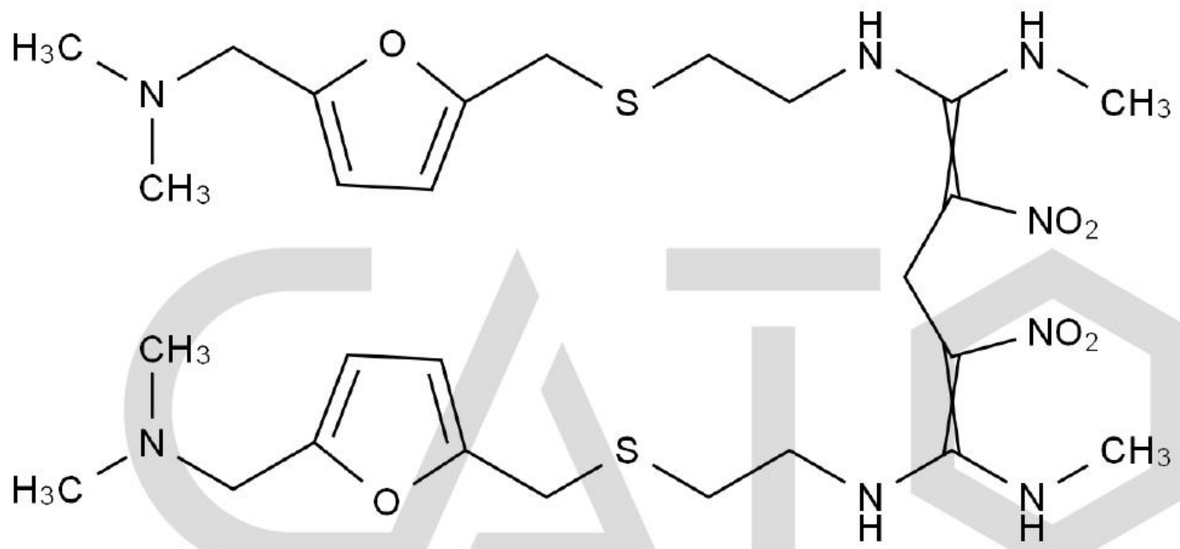
Certificate of Analysis

Reference Material & Standard

Product Name:	Ranitidine EP Impurity I	**Catalogue Number:**	C4X-13709
Synonyms:	N/A	**Lot Number:**	0731-RH-0060
CAS Number:	207592-21-0	**Expiry Date:**	May 07, 2030
Molecular Formula:	$C_{27}H_{44}N_8O_6S_2$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	640.82	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.3364%
Loss on Drying	TGA	4.118%
Assay		94.3%

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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: Date: Jul 31, 2026

Reviewed by: Date: Jul 31, 2026

Approved by General Manager: Date: Jul 31, 2026

CATO Research Chemicals Inc.