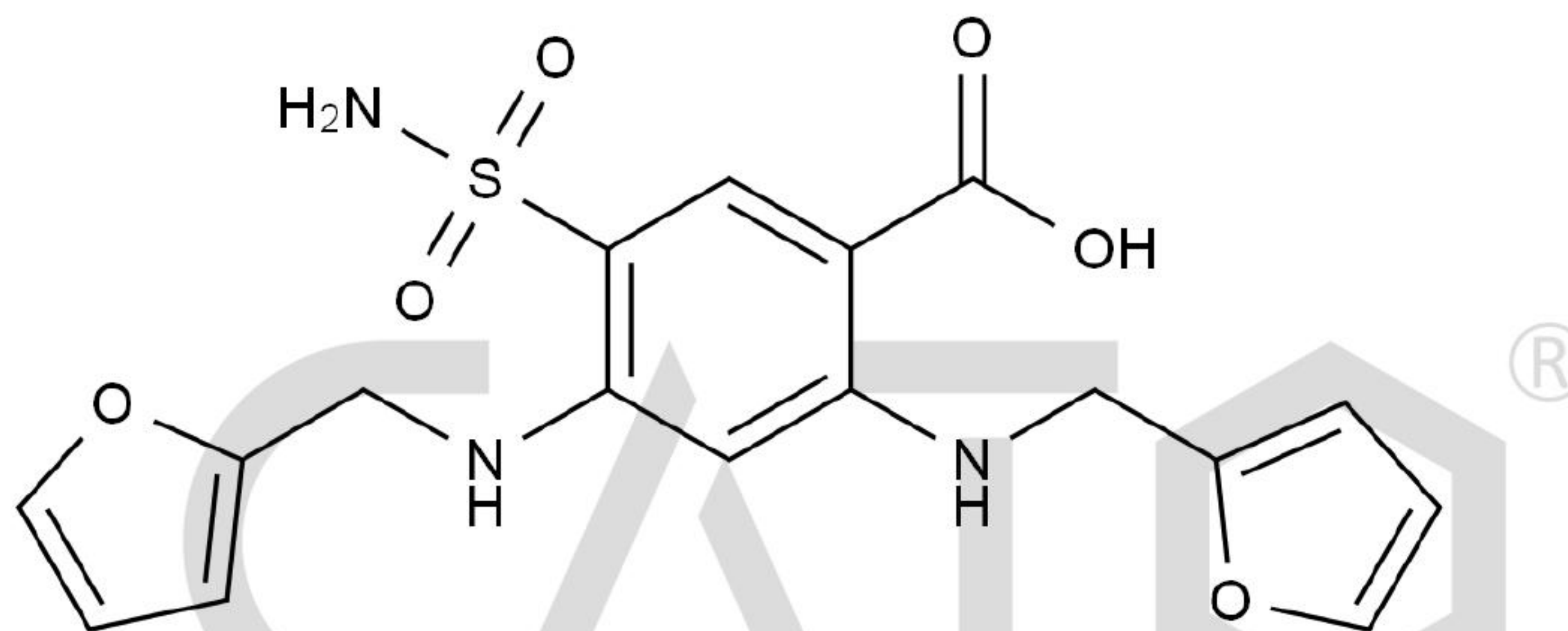


Certificate of Analysis

Reference Material & Standard

Product Name:	Furosemide EP Impurity D	Catalogue Number:	C4X-14025
Synonyms:	2,4-Bis[(2-furylmethyl)amino]-5-sulfamoylbenzoic acid	Lot Number:	0105-RH-0101
CAS Number:	5046-19-5	Expiry Date:	Jan 12, 2030
Molecular Formula:	C ₁₇ H ₁₇ N ₃ O ₆ S	Storage:	-20°C±5°C Sealed
Molecular Weight:	391.40	Shipping Condition:	Shipping with Ice Packs
Solubility:	Soluble in DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.961%
Residue on Ignition	TGA	0.8091%
Loss On Drying	TGA	0.0318%
Assay	qNMR	97.3%
Assay	Mass Balance	98.1%

Comment:

- The retest date of this product is Jan 12, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying}) \times \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Jan 13, 2026

Date: Jan 13, 2026

Date: Jan 13, 2026



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