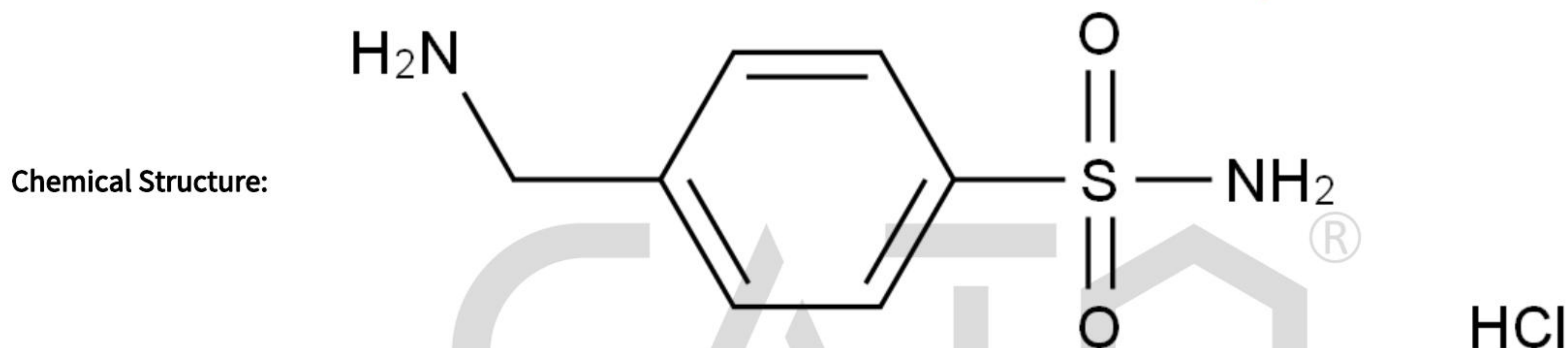


Certificate of Analysis

Reference Material & Standard

Product Name:	Homosulfamine Hydrochloride	Catalogue Number:	CCAD300725
Synonyms:	N/A	Lot Number:	0512-RD-0021
CAS Number:	138-37-4	Expiry Date:	Jun 05, 2029
Molecular Formula:	C7H10N2O2S HCl	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	186.23 36.46	Warning:	



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.781%
Water Content	Karl Fischer	0.7754%
Assay		99.0%
Uncertainty		±0.2%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Jun 06, 2025

Date: Jun 06, 2025

Date: Jun 06, 2025

