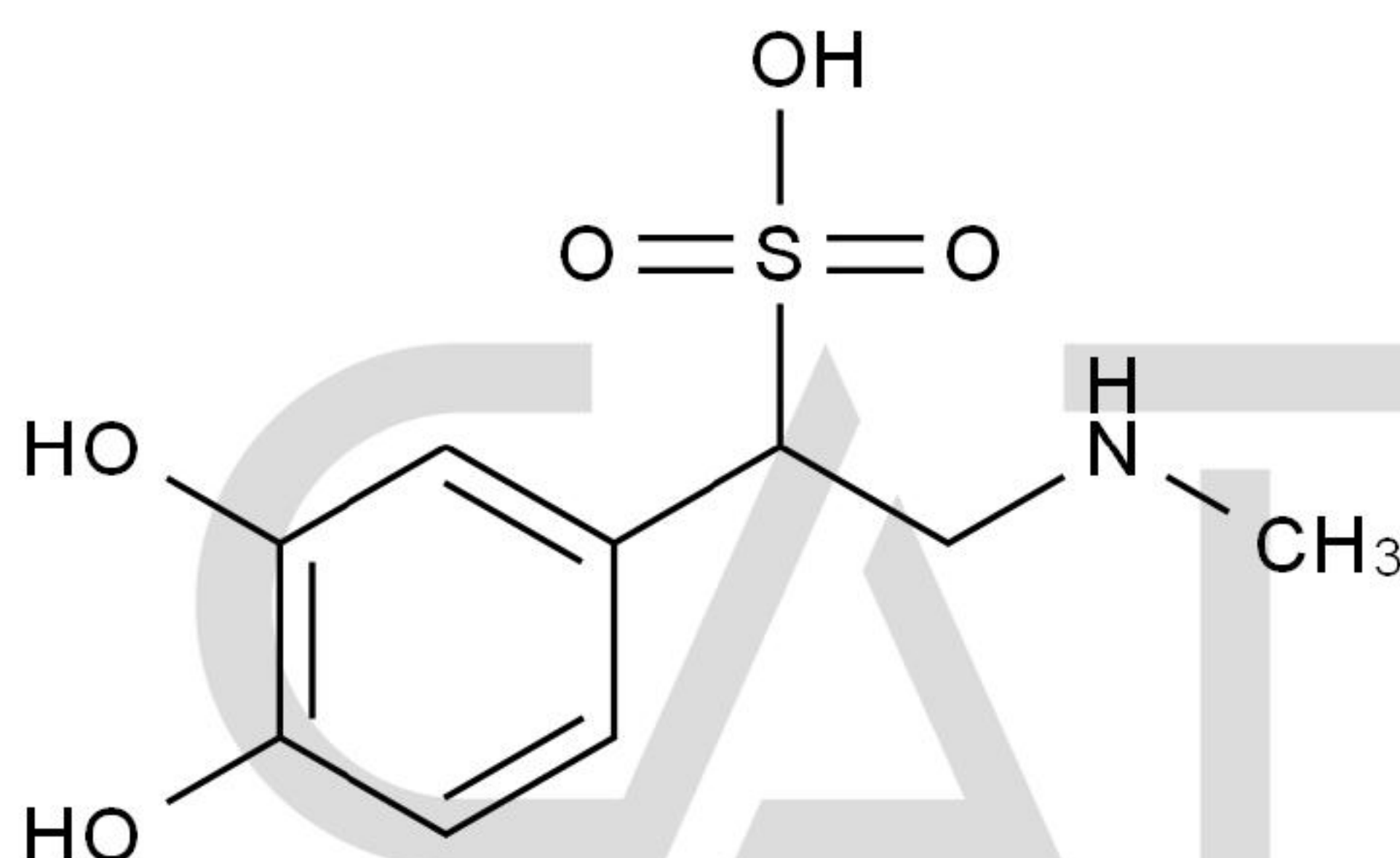


Certificate of Analysis

Reference Material & Standard

Product Name:	Rac-Adrenaline EP Impurity F (Epinephrine Sulfonic Acid)	Catalogue Number:	C4X-18496
Synonyms:	1-(3,4-Dihydroxyphenyl)-2- (methylamino)ethanesulfonic acid	Lot Number:	0525-RH-0087
CAS Number:	26405-77-6	Expiry Date:	May 28, 2030
Molecular Formula:	C ₉ H ₁₃ NO ₅ S	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	247.27	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Water and DMSO	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.834%
Residue on Ignition	TGA	1.6871%
Loss on Drying	TGA	3.0370%
Assay	qNMR	95.4%
Assay	Mass Balance	95.1%

Comment:

- The retest date of this product is May 28, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
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: May 29, 2026

Date: Jun 01, 2026

Date: Jun 01, 2026

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