

Certificate of Analysis

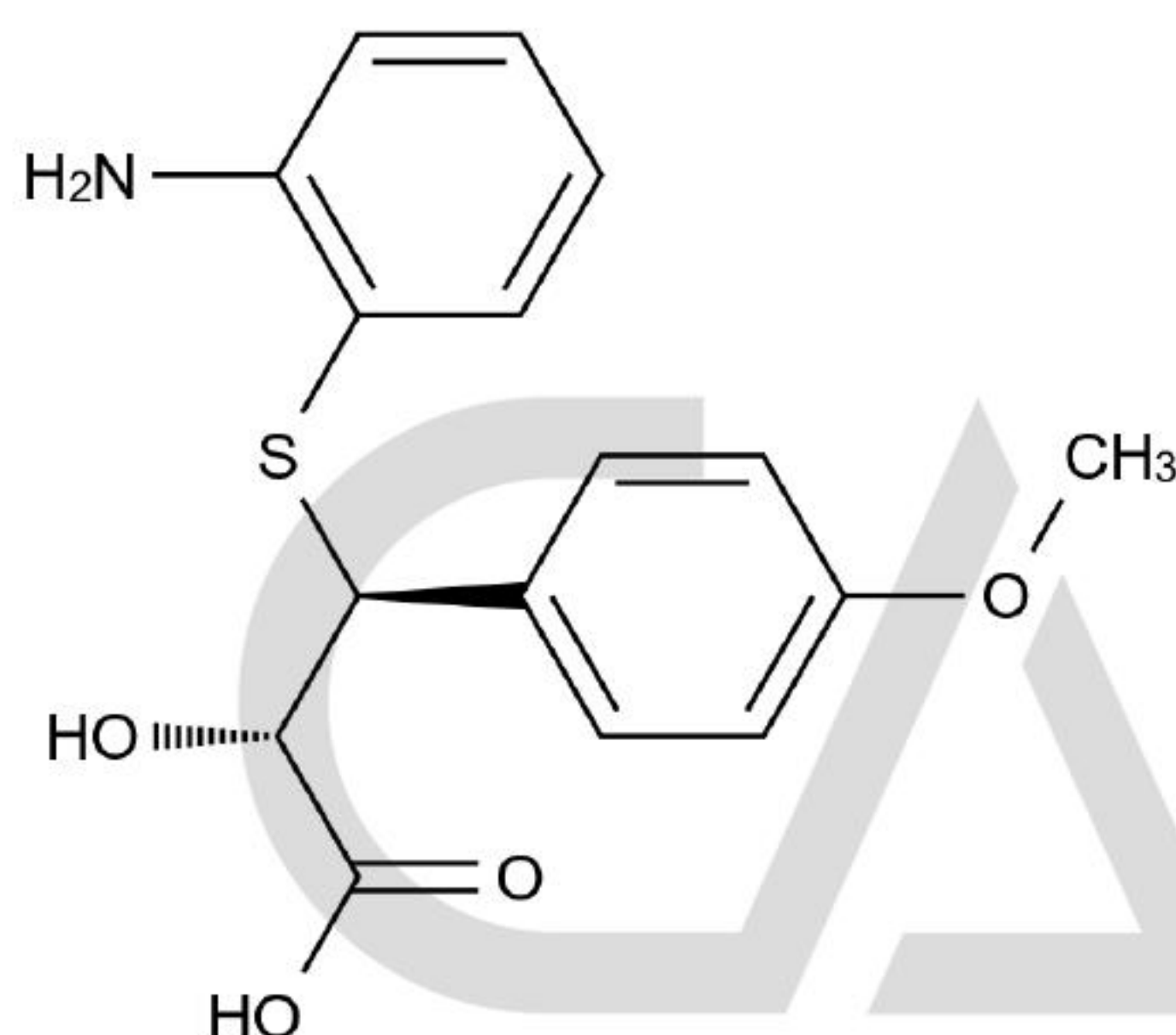
Reference Material & Standard

Product Name:	Diltiazem Impurity N1	Catalogue Number:	C1803732
Synonyms:	N/A	Lot Number:	0522-RH-0038
CAS Number:	42399-48-4	Expiry Date:	May 19, 2030
Molecular Formula:	C ₁₆ H ₁₇ NO ₄ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	319.38	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	96.0772%
Loss on Drying	TGA	2.541%
Assay		93.6%

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:

Reviewed by:

Approved by General Manager:

Date: May 26, 2026

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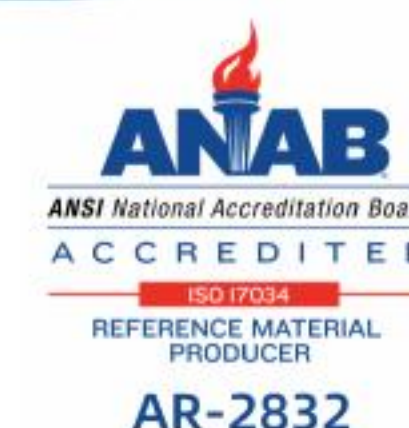
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