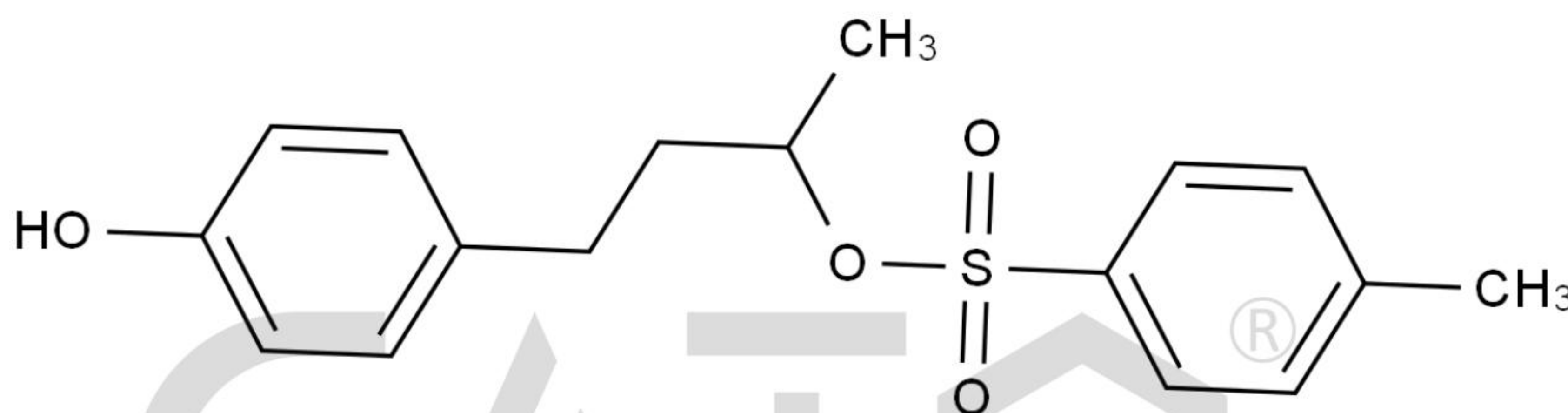


Certificate of Analysis

Reference Material & Standard

Product Name:	Dobutamine Impurity 9	Catalogue Number:	C4X-12989
Synonyms:	N/A	Lot Number:	0426-RC-0026
CAS Number:	N/A	Expiry Date:	Apr 18, 2024
Molecular Formula:	C ₁₇ H ₂₀ O ₄ S	Storage:	-20±2°C Dark and Sealed
Molecular Weight:	320.40		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Oil
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.3735%
Water Content	Karl Fischer	0.5%
Residual Solvents	NMR	7.3% ethyl acetate
Assay		91.6%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100%-Water Content-Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Debia

Reviewed by:

Debia

Approved by General Manager:

David

Date: Apr 26, 2021

Date: Apr 27, 2021

Date: Apr 27, 2021



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