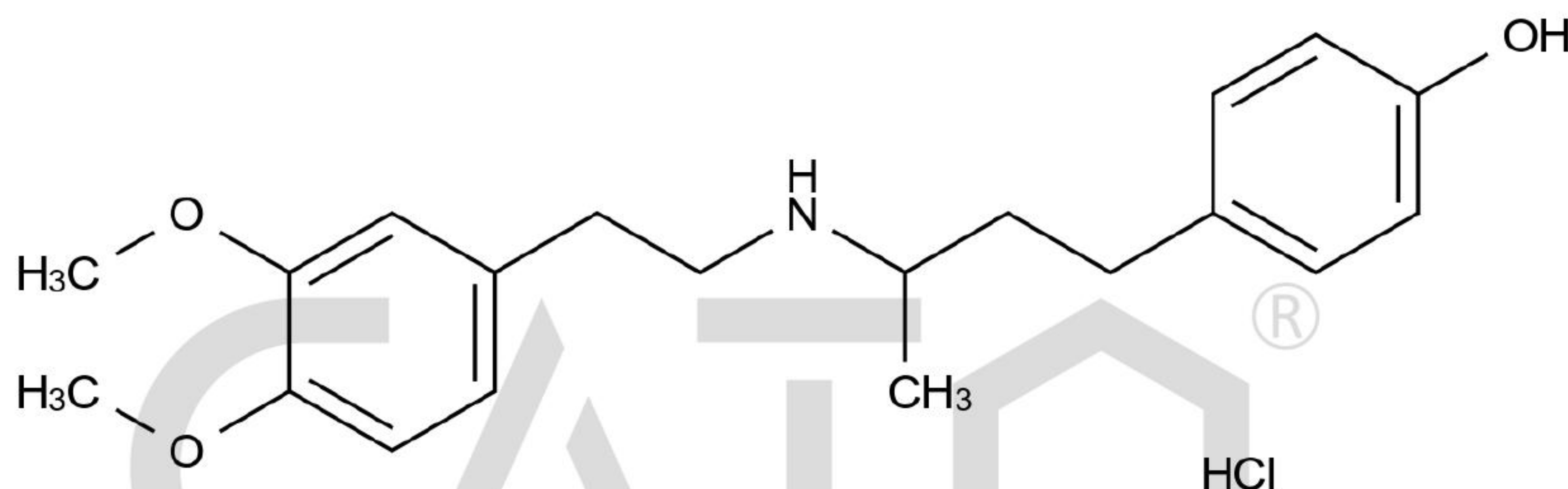


Certificate of Analysis

Reference Material & Standard

Product Name:	Dobutamine Impurity 20 HCl	Catalogue Number:	C4X-129820
Synonyms:	N/A	Lot Number:	0731-RE-0091
CAS Number:	140165-60-2 (free base)	Expiry Date:	Mar 21, 2026
Molecular Formula:	C ₂₀ H ₂₇ NO ₃ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	329.43 36.46	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	98.67%
Loss on Drying	TGA	0.4940%
Assay		98.2%

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:

Lily

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Nov 16, 2023

Date: Nov 16, 2023

Date: Nov 16, 2023



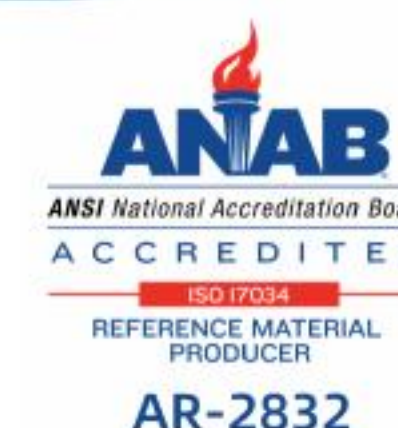
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Page 1 of 7



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