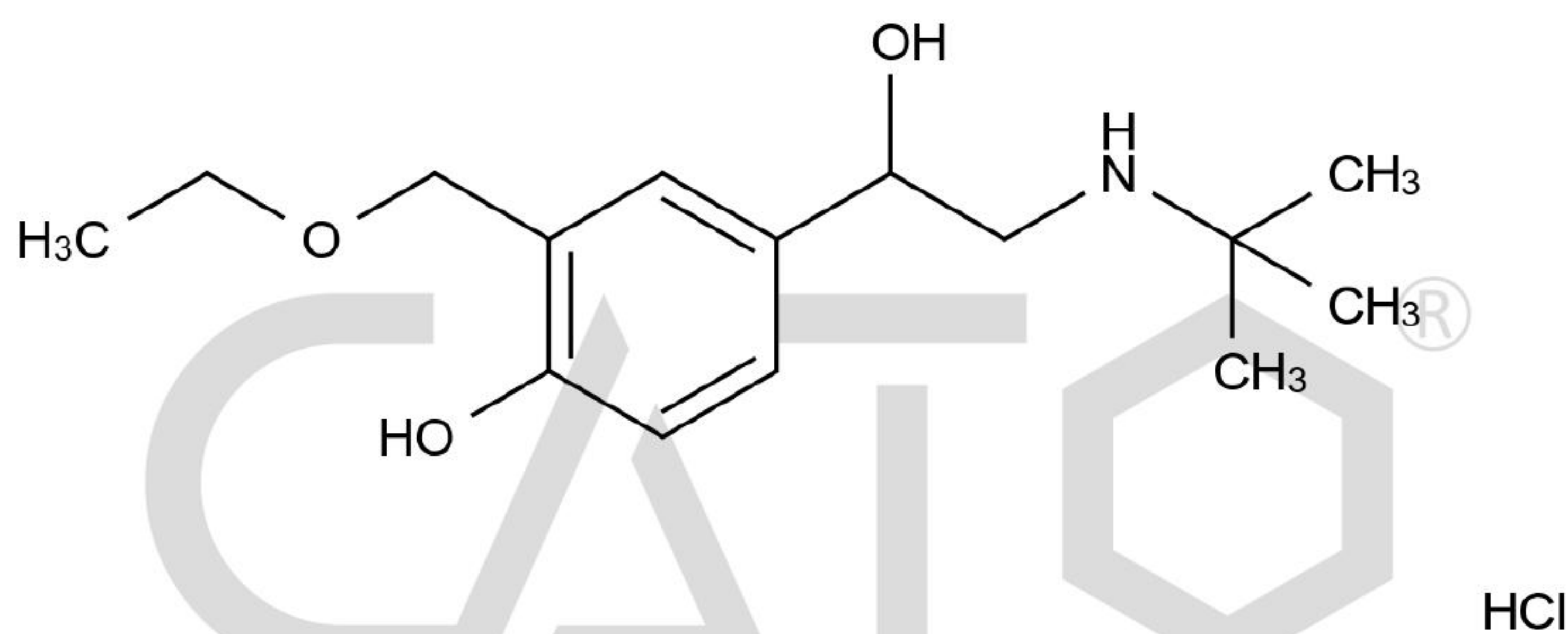


Certificate of Analysis

Reference Material & Standard

Product Name:	Levalbuterol USP Related Compound E HCl	Catalogue Number:	C4X-117646
Synonyms:	Levalbuterol Related Compound E HCl	Lot Number:	1205-RG-0025
CAS Number:	69716-64-9 (free base:754926-25-5)	Expiry Date:	Jun 12, 2029
Molecular Formula:	C ₁₅ H ₂₅ NO ₃ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	267.36 36.46	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	99.466%
Water Content	Karl Fischer	0.02%
Residual Solvents	NMR	0.34% ethyl acetate
Assay		99.1%

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:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Dec 09, 2025

Date: Dec 09, 2025

Date: Dec 09, 2025



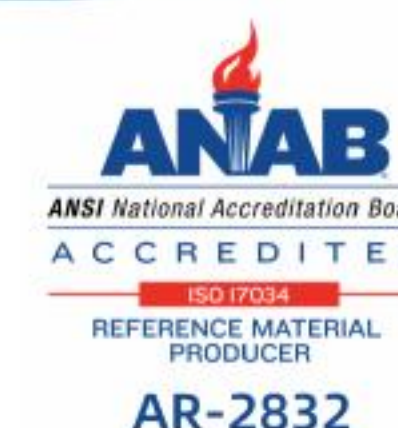
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Page 1 of 6



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