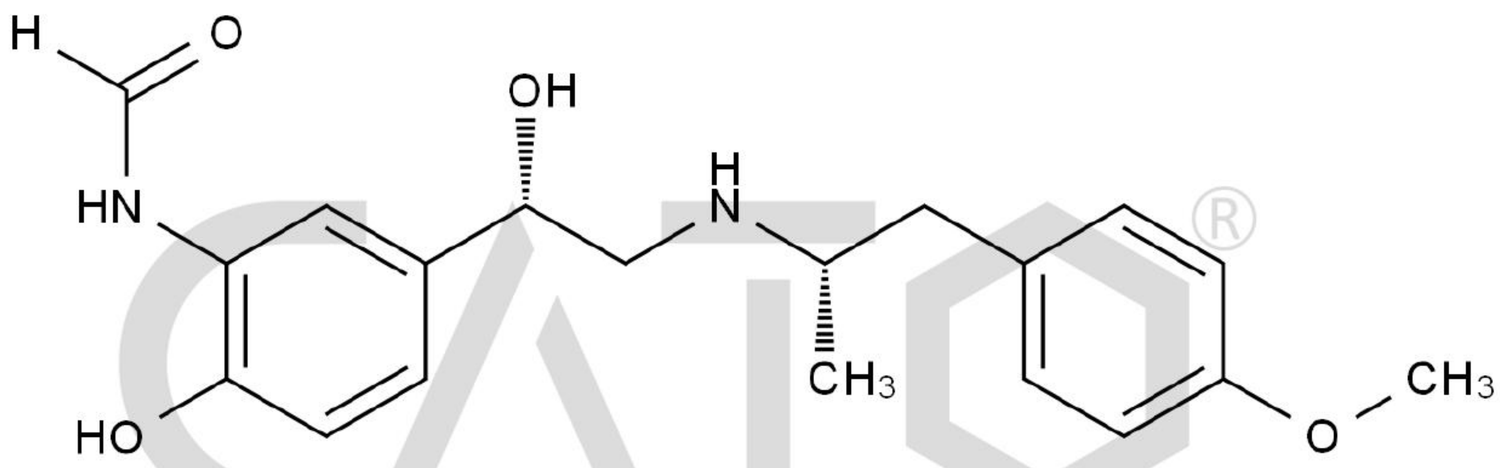
Certificate of Analysis

Reference Material & Standard

Product Name:	(S,S)-Formoterol Impurity	**Catalogue Number:**	C4X-152515
Synonyms:	N/A	**Lot Number:**	1106-RH-0087
CAS Number:	67346-48-9	**Expiry Date:**	Aug 23, 2030
Molecular Formula:	$C_{19}H_{24}N_2O_4$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	344.40	**Shipping Condition:**	Shipping with Ice Packs
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.1815%
Loss on Drying	TGA	1.598%
Assay	Mass Balance	97.6%

CATO Research Chemicals Inc.

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: Date: Nov 10, 2026

Reviewed by: Date: Nov 11, 2026

Approved by General Manager: Date: Nov 11, 2026