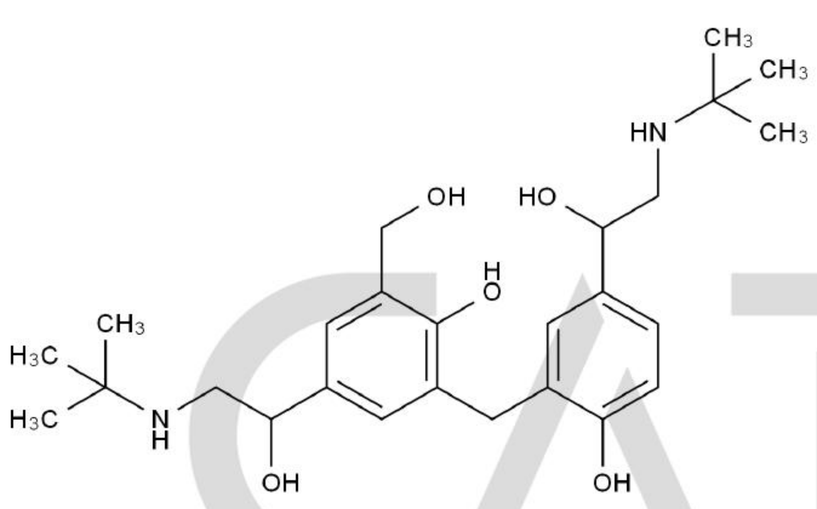
Certificate of Analysis

Reference Material & Standard

Product Name:	Salbutamol EP impurity N	**Catalogue Number:**	C4X-117623
Synonyms:	4-[2-(tert-Butylamino)-1-hydroxyethyl]-2-{5-[2-(tert-butylamino)-1-hydroxyethyl]-2-hydroxybenzyl}-6-(hydroxymethyl)phenol	**Lot Number:**	1015-RH-0060
CAS Number:	149222-15-1	**Expiry Date:**	Oct 26, 2030
Molecular Formula:	$C_{26}H_{40}N_2O_5$	**Storage:**	-20°C±5°C Sealed
Molecular Weight:	460.61	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	Soluble in DMSO	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.248%
Residue on Ignition	TGA	0.4791%
Loss on Drying	TGA	4.1078%
Assay	qNMR	94.7%
Assay (Assigned Value)	Mass Balance	94.7%

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Comment:

1. The retest date of this product is Oct 26, 2029.

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

*Assay (%) = (100%-Residue on Ignition-Loss on Drying) * Purity HPLC (%) /100%*

Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Koi Date: Oct 27, 2026

Reviewed by: Alice Date: Oct 27, 2026

Approved by General Manager: David Date: Oct 27, 2026

CATO Research Chemicals Inc.