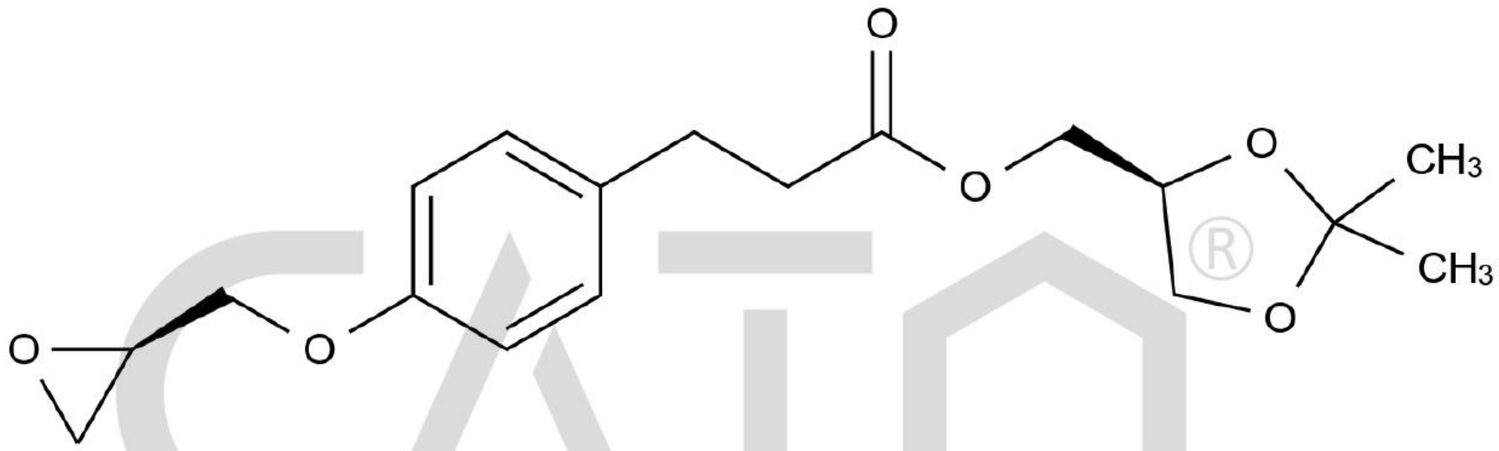
Certificate of Analysis

Reference Material & Standard

Product Name:	Landiolol Impurity 65	**Catalogue Number:**	C4X-262165
Synonyms:	N/A	**Lot Number:**	1113-RH-0029
CAS Number:	N/A	**Expiry Date:**	Nov 15, 2030
Molecular Formula:	$C_{18}H_{24}O_6$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	336.38	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	Acetonitrile	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.020%
Loss on Drying	TGA	0.2380%
Assay	Mass Balance	98.8%

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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: Alice Date: Nov 16, 2026

Reviewed by: Koi Date: Nov 16, 2026

Approved by General Manager: David Date: Nov 16, 2026

CATO Research Chemicals Inc.