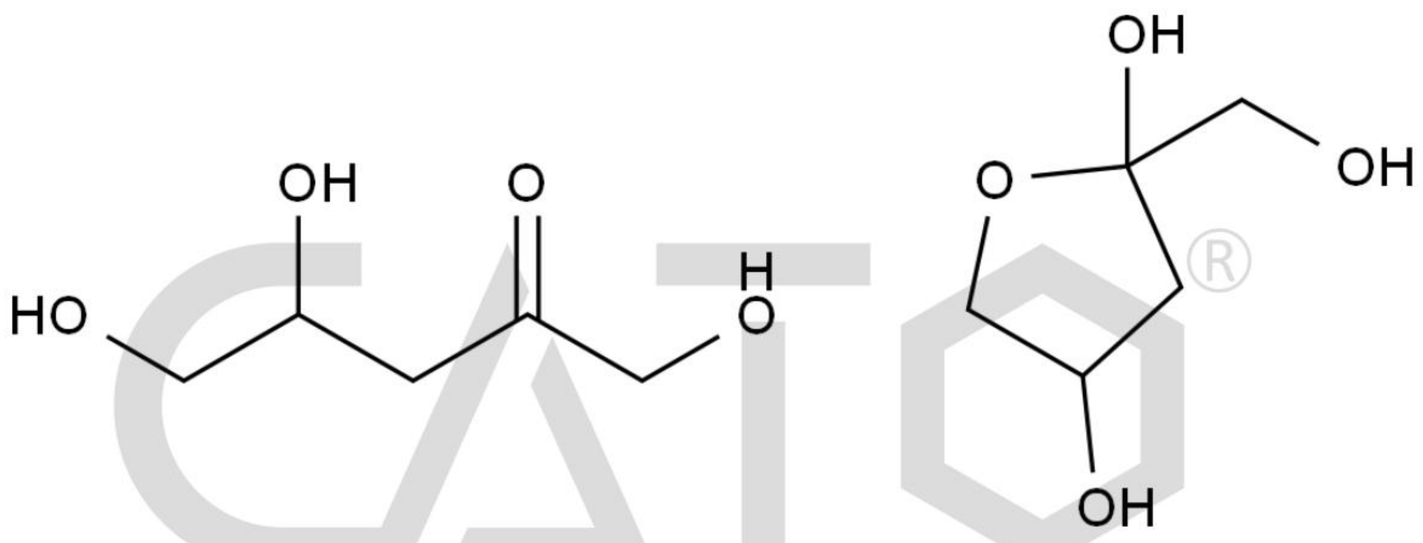
Certificate of Analysis

Reference Material & Standard

Product Name:	Lactulose Impurity F	**Catalogue Number:**	C4X-22982
Synonyms:	Lactulose, Liquid EP Impurity F	**Lot Number:**	0717-RH-0039
CAS Number:	3343-53-1&136272-61-2	**Expiry Date:**	Jul 14, 2030
Molecular Formula:	$2*C_5H_{10}O_4$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	2*134.13	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Sticky Liquid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.0%
Assay	qNMR	82.7%

CATO Research Chemicals Inc.

Signature:

Prepared by: Koji Date: Jul 20, 2026

Reviewed by: Lisa Date: Jul 21, 2026

Approved by General Manager: David Date: Jul 21, 2026

CATO Research Chemicals Inc.