

## CERTIFICATE OF ANALYSIS

Product : **2-NITROPHENYL-B-D-GALACTOPYRANOSIDE (ONPG)**  
Product number : O1409  
Batch number : 016023  
Date of analysis : 12-11-2019  
Date of expiry : 30-11-2024  
Packaging and storage : keep containers tightly closed, store dry at 2 – 8 °C

	<b>SPECIFICATION</b>	<b>RESULT</b>	<b>UNITS</b>	<b>REMARKS</b>
Description	white to pale yellow powder	white powder		
Solution test	clear and colourless	complies		1% in H <sub>2</sub> O
Identification	conform	complies		IR
Specific optical rotation ( $[\alpha]_D^{20}$ )	-67 – -71	-67	°	1% in H <sub>2</sub> O
Water	< 0.1	0.06	%	Karl Fischer
2-Nitrophenol (ONP)	< 100	< 40	ppm	
Assay	> 99%	> 99%		TLC

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved  
Released by:

drs. M. van Wissen, pharmacist  
Department of Quality Control Duchefa B.V.

Date: 12-10-2021



The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.

Duchefa Biochemie B.V.