



CERTIFICATE OF ANALYSIS

Product : **4-METHYLUMBELLIFERYL- β -D-GLUCURONIDE TRIHYDRATE (MUG trihydrate)**
Product number : M1404
Batch number : 015834
Date of analysis : 23-11-2020
Date of expiry : 30-11-2023

Storage conditions : store dry at 2 – 8 °C

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	almost white powder	complies		
Identity	conform	complies		IR-spectrum
Appearance of solution	clear and colourless	complies		2.5% in 1:1 acetone/water
Water content	12.3 – 14.3	13.1	%	Karl Fischer
Free 4-Methylumbelliferone	< 25	< 25	ppm	TLC
Assay	≥ 99	> 99	%	TLC

This certificate of analysis is conform the results of the manufacturer and controlled by M.G. Smith, Q.C. Manager.

Conclusion: approved

Released by:

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

Date: 30-11-2020

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

Duchefa Biochemie B.V.

