

## Analytical Certificate

### n-Dodecyl $\beta$ -maltoside > 99,5% (crystallized fraction)

Product No.: NB-19-0057  
 Charge: MR 2997/4

Molecular Weight: 510,63  
 Formula:  $C_{24}H_{46}O_{11}$   
 CAS: [69227-93-6]

Description	Specification Version 1 / 10.06.2007	Result
Appearance	white crystal powder	conform
$[\alpha]_D^{20}$ (c1; H <sub>2</sub> O; 22°±2°C)	+48°±1°	+48,8° (20°C)
m.p. thermal transition	103,0°C (smectic A) 240°C - 246°C (isotropic)	103,0°C 245°C
Purity (n-Dodecyl- $\beta$ -maltoside)	> 99,5%	99,88%
Contaminants:		
- n-Dodecanol	<0,002% (HPLC)	<0,001% (HPLC)
- n-Dodecyl- $\alpha$ -maltoside	<0,003% (HPLC,TLC)	<0,001% (HPLC,TLC)
Solubility:		
- 10% solution in water	clear, colourless	clear, colourless
- 10% solution in ethanol	clear, colourless	clear, colourless
- check (1g DDM + 9ml H <sub>2</sub> O dissolve at RT in 3 min)		
pH (1% solution)	5,5 – 6,5	6,3
Conductance	6,5±1 $\mu$ S/cm (10% aq. solution)	6,9 $\mu$ S/cm (10% aq. solution)
Fluorescence	Solvent: 0,01% BSA/ Detergent 0,1% Excitation wavelength: 280nm Emission wavelength: 345 nm	Solvent: 0,01% BSA/ Detergent 0,1% Excitation wavelength: 280 nm Emission wavelength: 345 nm
% due to detergent	1,0%±0,3%	1,1%
Absorbance:	Solvent: H <sub>2</sub> O / Detergent conc.: 1%	
340 nm	< 0,02	0,012
280 nm	< 0,03	0,025
260 nm	< 0,04	0,033
240 nm	< 0,10	0,070

Luckenwalde, 24.11.2020  
 Analyse Dr. C. Kolar, M. Rasche

**Store at -20°C avoid humidity!**  
**Open only at RT; keep dry!**