

**CERTIFICATE OF ANALYSIS**

PRODUCT NAME: D(+)-Raffinose Pentahydrate  
 BATCH NO. 19/MFM/2309  
 DATE OF PRODUCTION: March 2018  
 DATE OF EXPIRY: March 2021

TESTS	VALUE LIMIT	RESULTS
Appearance	White	Complies
Identification	Crystalline powder	Complies
Loss on drying	<= 15.0	14.9
Ph-value, in dist. Water	5.0 to 7.0%	6.1
Heavy metals		
Calculated as Pb - ppm	<= 0.5	Complies
Arsenic as As <sub>2</sub> O <sub>3</sub> - ppm	<= 0.1	Complies
Content by HPLC		
Raffinose Pentahydrate	>= 98.0%	99.8%
Sucrose	<= 2%	0.2%
Sulphated ash	<= 0.1%	Complies
Particle size	<= 40	CompliesComplies
Total aerobic count - poured plate	Max 300 cfu/g	<10 cfu/g
Moulds & yeasts - per plate	Max 20 cfu/g	<10 cfu/g

\* This material is supplied for laboratory use only.

Supplier: Formedium Ltd

Approved by:

*[Signature]*  
 For and on behalf of Date: 05 APR 2019  
 FORMEDIUM Ltd, Unit 1B  
 Hunstanton Commercial Park  
 PE36 5JQ England

*[Signature]*  
 (Authorised Signature)