

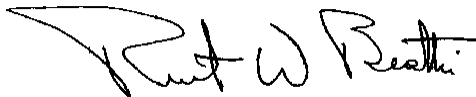
Certificate of Analysis

Product Description: D-(+)-Raffinose Pentahydrate
Catalog Number: 0109-400; 4061512; 4061522; 4010012; 4010022; 4010032
Lot: 9842J

Formula: C₁₈H₃₂O₁₆·5H₂O
CAS #: 17629-30-0
Physical Description: White Powder

Formula Weight: 594.5
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥98%	99%
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	76 - 86°C	79.5-80.9°
Optical Rotation (c=4, water)	101 - 107°	104.7°
Loss on Drying	13 - 17%	15.05%



07/14/2008 - Robert Beattie
MP Biomedicals, LLC.
Technical Director

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