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Certificate of Analysis

Product Description: Erythromycin, cell culture reagent
Catalog Number: 194529
Lot: QR13827

Formula: C₃₇H₆₇NO₁₃
CAS #: 114-07-8
Physical Description: Fine White Powder

Formula Weight: 733.95
Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	~98%	97.2%
Potency	≥850 µg/mg	1036 µg/mg (Dry basis)
FTIR	Conforms to Standard	Conforms to standard
Optical Rotation (c = 2; ethanol)	-71° to -78°	-71.2°
pH (70% aq soln)	8.0 - 10.5	9.64
Moisture	≤10%	4.73%
Expiration Date	Month/Day/Year	03/08/2021

Residue on ignition: 0.03%
Limit of thiocyanate: 0.05%
-- Erythromycin B: 0.24%
-- Erythromycin C: 0.11%
-- Any Individual Related Substance: 0.23%
-- Total Unknown Related Substances: 3.57%

Residual Solvents:

- Acetone: 527 ppm
- N-butyl acetate: <28 ppm
- Iso-octyl alcohol: 111 ppm

Related substances:

- Impurity A: 0.01%
- Impurity B: 1.26%
- Impurity C: 1.15%
- Impurity D: 0.70%
- Impurity E: 0.14%
- Impurity F: 0.02%
- Impurity H: 0.02%
- Impurity M: 0.03%
- Impurity L: 0.01%



04/19/2017 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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