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Certificate of Analysis

Product Description: beta-Endorphin
Catalog Number: 190417
Lot: 7381K

Formula: C₁₅₈H₂₅₁N₃₉O₄₆S
CAS #: 61214-51-5
Physical Description: White Chunky Solid

Formula Weight: 3465.01
Storage: +4°C

Test	Specification	Result
Identity Test	Passes	Passes
Source	Human	Human
Purity	Report Result	>96%

Peptide content: 79.87% (+/-3%)

Amino Acid Analysis:

- Asx: 2.02
- Ile: 1.55
- Glx: 2.93
- Phe: 1.98
- Afa: 2.06
- Met: 0.73
- Ser: 1.80
- Tyr: 1.99
- Gly: 3.00
- Lys: 5.06
- Val: 0.96
- Thr: 2.89
- Leu: 2.03
- Pro: 0.96

Christina Marotta

06/29/2010 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site
Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)