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## Certificate of Analysis

**Product Description:** Actinomycin D\_  
**Catalog Number:** 104658\_  
**Lot:** M2865\_

**Formula:** C<sub>62</sub>H<sub>86</sub>N<sub>12</sub>O<sub>16</sub>  
**CAS #:** 50-76-0  
**Physical Description:** Red Powder

**Formula Weight:** 1255.5  
**Storage:** +4°C, protect from light

| Test          | Specification | Results |
|---------------|---------------|---------|
| Identity Test | Passes        | Passes  |
| Purity        | ~98%          | 99.79%  |

Source: Streptomyces parvalus  
Solubility: Clear orange solution at 50mg/ml  
TLC: >99%  
Extinction Coefficient: (E245): 32630, (E443): 23731  
A241/A441: 1.357  
Melting Point: 252 deg C  
Elemental analysis: C: 58.57  
H: 6.87  
N: 12.76

*Christina Marotta*

12/01/2011 - Christina Marotta  
MP Biomedicals, LLC.  
Technical Director

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