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## Certificate of Analysis

**Product Description:** Vincristine Sulfate  
**Catalog Number:** 190687  
**Lot:** SR04236

**Formula:** C<sub>46</sub>H<sub>58</sub>N<sub>4</sub>O<sub>14</sub>S  
**CAS #:** 2068-78-2  
**Physical Description:** White Powder

**Formula Weight:** 923.0  
**Storage:** 2 - 8°C, desiccate, protect from light

| Test          | Specification | Result |
|---------------|---------------|--------|
| Identity Test | Passes        | Passes |
| Moisture      | Report Result | 0.1%   |

pH: 6.5  
 Loss on Drying: 0.78%  
 Melting Point: 212°C  
 Residue on Ignition: ≤0.1%  
 Specific Rotation (HCCl3): +43°  
 Methanol: 0.1%  
 Heavy Metals: ≤10 ppm  
 Microbiological Control: 78 cfu/g  
 Total Plate Count: Negative  
 Fungi: Negative  
 Salmonella: Negative  
 Through 80 mesh: 100%  
 Recommended Retest Date (MM/DD/YYYY): 06/07/2023

A handwritten signature in black ink that reads 'John Huang'.

06/10/2021 - John Huang, PhD  
 MP Biomedicals, LLC.  
 Quality Control Manager

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