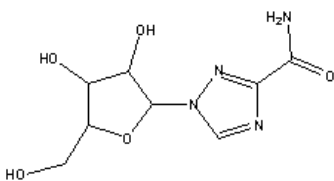




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## CERTIFICATE OF ANALYSIS

NO: DYC051510211

|                              |   |
|------------------------------|---|
| Product name                 | Ribavirin   |
| CAS Number                   | 36791-04-5  |
| Molecule Structure           |  |
| Molecule Formula             | C <sub>8</sub> H <sub>12</sub> N <sub>4</sub> O <sub>5</sub>                      |
| Batch number                 | 20150501  |
| Manufacture Date;Expiry Date | 2015-05-01;<br>2018-04-30   |
| Testing date                 | 2015-05-01  |

| Items                  | Standard                                     | Result  |
|------------------------|--|---|
| Appearance             | White crystalline powder                     | Conforms  |
| Identification         | A: Infrared Absorption<br>B: TLC             | Conforms<br>Conforms                                    |
| Specific rotation      | -33.5° ~ -37.0°                              | -36.5°  |
| PH                     | 4.0~ 6.5                                     | 4.5   |
| Loss on drying         | ≤0.5%  | 0.1%  |
| Residue on ignition    | ≤0.25%                                       | 0.0%  |
| Heavy metals           | ≤0.001%                                      | Conforms  |
| Chromatographic purity | Individual peak ≤ 0.25%<br><br>Total ≤ 1.0 % | Individual peak:<br>1. 0.04%<br>2. 0.01%<br>Total: 0.1% |
| Residual solvents      | Methanol ≤ 0.3 %<br>Ethanol ≤0.5 %           | Undetected<br>0.012%                                    |
| Assay                  | 98.9%~101.5%                                 | 99.9%   |
| Conclusion             | The result conforms USP36.                   |   |

QUALITY CONTROL:  
Hangzhou Dingyan Chem Co., Ltd.  
Quality Control  
*Lily Tang*  
Signature(s)

CHECK: 姚仙娟

INSPECTOR: 刘清风