



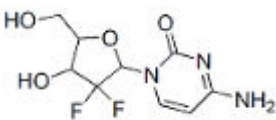
HANGZHOU DINGYAN CHEM CO.,LTD

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## CERTIFICATE OF ANALYSIS

NO: DYC12181227831

|                    |   |
|--------------------|---|
| Product name       | Gemcitabine   |
| CAS Number         | 95058-81-4  |
| Molecule Structure |  |
| Molecule Formula   | C <sub>9</sub> H <sub>11</sub> F <sub>2</sub> N <sub>3</sub> O <sub>4</sub>       |
| Batch number       | 20181227  |
| Manufacture Date   | 2018-12-27  |
| Testing date       | 2018-12-28  |

| Items              | Standard                            | Result   |
|--------------------|-------------------------------------|----------|
| Appearance         | White crystal or crystalline powder | Conforms |
| HNMR               | Right                               | Conforms |
| Loss on drying     | ≤0.5%                               | 0.35%    |
| Purity (By HPLC)   | ≥ 99.0%                             | 99.75%   |
| Related substances | Individual Impurities ≤0.1%         | 0.07%    |
|                    | Total Impurities ≤0.5%              | 0.40%    |
|                    | α-isomer ≤0.1%                      | 0.01%    |
| Assay (By HPLC)    | 98.5%-101.5%                        | 99.63%   |

QUALITY CONTROL  
Hangzhou Dingyan Chem Co., Ltd.  
Quality Control  
Signature(x)

CHECK: 姚仙娟

INSPECTOR: 刘清风