

# Certificate of Analysis

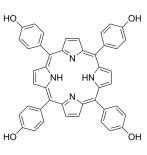
## 5,10,15,20-Tetrakis(4-hydroxyphenyl)porphyrin

| Cat. No.:      | HY-W035140                                                           |
|----------------|----------------------------------------------------------------------|
| CAS No.:       | 51094-17-8                                                           |
| Batch No.:     | 262483                                                               |
| Chemical Name: | Phenol, 4,4′,4′′,4′′′-(21H,23H-porphine-5,10,15,20-tetrayl)tetrakis- |

#### PHYSICAL AND CHEMICAL PROPERTIES

| Molecular Formula: | C <sub>44</sub> H <sub>30</sub> N <sub>4</sub> O <sub>4</sub>                              |
|--------------------|--------------------------------------------------------------------------------------------|
| Molecular Weight:  | 678.73                                                                                     |
| Storage:           | 4°C, protect from light, stored under nitrogen                                             |
|                    | * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen) |

#### **Chemical Structure:**



### ANALYTICAL DATA

| Appearance:                  | Purple to purplish red (Solid)                                          |
|------------------------------|-------------------------------------------------------------------------|
| <sup>1</sup> H NMR Spectrum: | Consistent with structure                                               |
| Purity (NMR):                | ≥98.0%                                                                  |
| Conclusion:                  | The product has been tested and complies with the given specifications. |

#### Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

009-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA