



## **CERTIFICATE OF ANALYSIS**

**PRODUCT NAME : HEPES (BUFFER)**

|                         |                                                                 |                     |                    |
|-------------------------|-----------------------------------------------------------------|---------------------|--------------------|
| <b>CAS No</b>           | <b>: 7365-45-9</b>                                              | <b>Product code</b> | <b>: 52780</b>     |
| <b>Mol. Formula</b>     | <b>: C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S</b> | <b>Batch No</b>     | <b>: MCR-26914</b> |
| <b>Mol. WT</b>          | <b>: 238.30</b>                                                 | <b>Mfd.</b>         | <b>: Nov. 2022</b> |
| <b>Date of analysis</b> | <b>: 08/11/22</b>                                               | <b>Exp.</b>         | <b>: Oct. 2027</b> |

| S. R | Test                                                 | Specification                       | Observation               |
|------|------------------------------------------------------|-------------------------------------|---------------------------|
| 1    | Description                                          | White Powder or crystalline powder. | White crystalline powder. |
| 2    | Assay                                                | 99 % min                            | 99.08%                    |
| 3    | Melting point                                        | 210 - 220                           | 212                       |
| 4    | Loss on drying at 105°C                              | 1% max                              | 0.74                      |
| 5    | Chloride (Cl)                                        | 0.01% max                           | <0.01%                    |
| 6    | Sulphate (SO <sub>4</sub> )                          | 0.01% max                           | <0.01%                    |
| 7    | Iron (Fe)                                            | 0.0005% max                         | <0.0005%                  |
| 8    | Heavy metals (asPb)                                  | 0.0005%max                          | <0.0005%                  |
| 9    | A 5%aq., 250 nm<br>Smooth curve from 230<br>– 350 nm | 0.05 max                            | 0.036                     |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**CHEMIST  
(Mayuri)**

**[QC Incharge]**

**HEAD-QUALITY ASSUARANCE  
(G.G.Salian)**

**Note:** Computer generated image requires no sign.

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**  
**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**  
**Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**