

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : PIPES (BUFFER)**

(Piperazine-N,N-Bis-2-Ethene Sulfonic acid)

**CAS No** : 5625-37-6  
**Mol. Formula** :  $C_8H_{18}N_2O_6S_2$   
**Mol. WT** : 302.36  
**Date of Analysis** : 29/01/25

**Product code** : 24750  
**Batch No** : MCR-33057  
**Mfd.** : Jan. 2025  
**Exp.** : Dec. 2029

| S.R. | Test                                                     | Specification                       | Observation  |
|------|----------------------------------------------------------|-------------------------------------|--------------|
| 1    | Description                                              | White powder or crystalline powder, | White powder |
| 2    | Assay                                                    | 99% min                             | 99.63%       |
| 3    | Loss on drying at 105°C                                  | 0.5% max                            | 0.26%        |
| 4    | Suphated ash                                             | 0.5% max                            | 0.20%        |
| 5    | Sulphate (SO <sub>4</sub> )                              | 0.01% max                           | <0.01%       |
| 6    | Iron (Fe)                                                | 0.0005% max                         | <0.0005%     |
| 7    | Heavy metals (Pb)                                        | 0.001% max                          | <0.001%      |
| 8    | Absorbance (1 cm cell, 10% soln. in 10% NaOH at 250 nm ) | 0.2 max                             | 0.121        |

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

**[Tested By]**



**CHEMIST  
(Durvas)**



**[QC Incharge]**



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

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**Works :** Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.