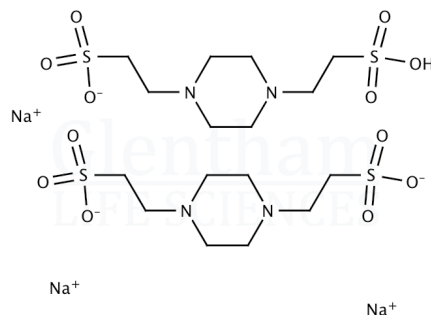


Certificate of Analysis

| | |
|-------------------|----------------------------|
| Product Name | PIPES sesquisodium salt |
| Glentham Code | GB6809 |
| CAS Number | 100037-69-2 |
| MDL Number | MFCD00066393 |
| PubChem SID | 310279065 |
| Batch Number | 973ADB |
| Molecular Weight | 335.34 |
| Molecular Formula | $C_8H_{16}N_2Na_1.5O_6S_2$ |
| Storage Temp. | +20°C |



| Property | Specification | Batch 973ADB |
|---------------------------|------------------------------------------|--------------------------|
| Physical Description | White to almost white crystalline powder | White crystalline powder |
| Identification (IR) | To conform to standard | Conforms |
| Solubility (25% in water) | Clear, colourless solution | Conforms |
| Absorbance (10% in water) | ≤ 0.05 (280nm) | 0.036 |
| | ≤ 0.05 (260nm) | 0.045 |
| Heavy Metals (as Pb) | ≤ 5 ppm | Conforms |
| Water | $\leq 8.0\%$ | 2.8% |
| Assay (Titration) | 98.5 - 101.5 % (dried basis) | 99.2% |

| | |
|-----------------------|------------|
| Specification Version | v1.0 |
| Manufacture Date | 2019-12-08 |
| Re-Test Date | 2028-12-02 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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