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-CERTIFICATE OF ANALYSIS-

| | |
|-----------------|--|
| Product: | N-2-Hydroxyethylpiperazine-N'-2-ethanesulphonic acid hemisodium salt |
| Code No: | BI5940 |
| CAS No: | 103404-87-1 |
| Formula: | C ₈ H ₁₇ N ₂ O ₄ S . Na |
| Batch No: | AS454399 |
| Appearance: | White crystalline powder |
| Assay: | 101.4% (anhydrous basis) |
| Loss on drying: | 0.87% |
| Heavy metals: | <5ppm (as Pb) |
| pH: | 7.5 (1% solution in H ₂ O at 20°C) |
| Identity: | IR concordant |

Verified by: David Parton

Signed:

Date: 21st November 2014