**HAIHANG INDUSTRY CO., LTD.**
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# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| Product Name: | D-(+)-GALACTOSE | | |
| CAS No.: | 59-23-4 | Quantity | 1000KGs |
| Rep Date | Apr.03.2014 | Batch NO. | 20140403 |
| MFG. Date | Apr.03.2014 | Expiry Date | Apr.02.2016 |

| Item | Specifications | Results |
|---|---|---|
| Appearance | White crystals | Conforms |
| Assay | ≥98.0% | 98.2% |
| Specific rotation$[\alpha]_D^{20}$ | +78.5 ~+81.0 ° | +79.9 ° |
| Appearance of solution | Meets the requirements | Conforms |
| Residue on ignition | ≤0.5% | 0.04% |
| Chloride （CL） | ≤0.003% | ＜0.003% |
| Sulfate（$SO_4$） | ≤0.005% | ＜0.005% |
| Heavy metals（Pb） | ≤0.001% | ＜0.001% |
| Loss on drying | ≤0.5% | ＜0.05% |
| Conclusion | The results conforms with enterprise standards | |

Analyst:Liya Checker:Weichen Q.C.Director:Xuleilei

For and on behalf of
HAIHANG INDUSTRY CO., LTD.
Authorized Signature(s)