

# CERTIFICATE OF ANALYSIS

MANUFACTURER: **Hangzhou Bioking Biochemical Engineering Co., LTD.**

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Yuhang District -  
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PRODUCT NAME: L+TARTARIC ACID

TEST STANDARD: BP2012

QUANTITY: 24.0MTS

BATCH NO: BJ2301062

MANUFACTURE DATE: January, 2023

EXPIRY DATE: January, 2025

| TEST ITEM                                                             | LIMIT           | TEST RESULT |
|-----------------------------------------------------------------------|-----------------|-------------|
| INDENTIFICATION TEST                                                  | PASSES TEST     | PASSES TEST |
| CLARITY                                                               | PASSES TEST     | PASSES TEST |
| COLOUR TEST                                                           | PASSES TEST     | PASSES TEST |
| ASSAY (%)                                                             | 99.5 - 101.0    | 99.84       |
| SPECIFIC OPTICAL ROTATION $[\alpha]^{20}_D$ (C=20%, H <sub>2</sub> O) | +12.0° ~ +12.8° | +12.08°     |
| HEAVY METALS , %                                                      | ≤0.001          | <0.001      |
| CHLORIDE TEST , %                                                     | ≤0.01           | <0.002      |
| OXALATE TEST , %                                                      | ≤0.035          | <0.035      |
| SULPHATE TEST, %                                                      | ≤0.015          | <0.002      |
| LOSS ON DRYING, %                                                     | ≤0.2            | 0.14        |
| CALCIUM TEST, %                                                       | ≤0.02           | <0.002      |
| SULPHATE CINDER, %                                                    | ≤0.1            | <0.05       |
| CONCLUSION                                                            | PASSES TEST     |             |

TEST: 施必雅

CHECK: 龚晓强

DEPARTMENT SEAL:

DATE: 01/2023

