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CERTIFICATE OF ANALYSIS

| Product: | L-Lysine HCL | Product Lot No.: | 121E0312 |
|--------------------|--------------|------------------|--------------|
| Product Batch No.: | 160312018 | Manu. Date: | Mar 12, 2016 |
| Country of Origin: | China | Expiry Date: | Mar 11, 2019 |

| Item | Specification | Result | |
|-----------------------|---|------------|--|
| Appearance | White crystals or crystalline powder | Conforms | |
| Identification | Infrared absorption | Conforms | |
| Assay (C₂H₅NO₂) | 99.0 ~ 100.5% | 99.52% | |
| Specific Rotation [a] | +20.4° ~ +21.4° | +21.0° | |
| Loss on Drying | NMT 0.40% | 0.25% | |
| Residue on Ignition | NMT 0.10% | 0.05% | |
| Chloride | 19.0 ~ 19.6 | 19.2 | |
| Sulfate | NMT 0.03% | < 0.03% | |
| Iron | NMT 0.003ppm | < 0.001ppm | |
| Heavy Metals (as Pb) | NMT 0.0015ppm | <0.001 | |
| Mesh Size | 100% through 20 Mesh | Conforms | |
| Conclusion | Conforms to specification of USP. | | |
| Storage | Store in tight, light resistant containers, avoid exposures to direct sunlight, moisture, and excessive heat. | | |
| Shelf Life | Two years if stored under the conditions above and stay in original | | |

*This Certificate of Analysis is reflective of our supplier and /or independent laboratory.