



Shijiazhuang Haitian Amino Acid Co., Ltd.

## 分析报告

### CERTIFICATE OF ANALYSIS

|   |   |   |
|---|---|---|
| 产品名称: L-缬氨酸<br>Product Name: L-Valine                             | 数量: 1000 公斤<br>Quantity: 1000kg   | 批号: 1231906001<br>Batch No: 1231906001                        |
| 生产日期: 2019.06.10<br>Production date: June 10 <sup>th</sup> , 2019 | 取样日期: 2019.06.10<br>Sampling date: June 10 <sup>th</sup> , 2019                     | 报告日期: 2019.06.11<br>Report date: June 11 <sup>th</sup> , 2019 |
| 参考标准: USP24<br>Reference standard: USP24                          | 包装: 25 公斤/桶<br>Packing: 25kg/Drum   | 有效期: 2021.06.09<br>Expiry date: June 9 <sup>th</sup> , 2021   |
| 项 目<br>Item   | 标 准 规 定<br>Quality Standard   | 分 析 结 果<br>Results  |
| 描述<br>Description   | 应为白色结晶或结晶性粉末, 味微苦<br>White crystals or crystalline powder,<br>Slightly bitter taste | 符合规定<br>Conforms  |
| 比旋度<br>Specific rotation  | +26.6° ~ +28.8°   | +27.9°  |
| 含量<br>Assay   | 98.5%~101.5%  | 99.0%   |
| pH  | 5.5~7.0   | 5.6   |
| 氯化物<br>Chloride(Cl)   | ≤0.05%  | <0.05%  |
| 硫化物<br>Sulfate  | ≤0.03%  | <0.03%  |
| 铁<br>Iron(Fe)   | ≤30ppm  | <30ppm  |
| 砷<br>Arsenic (As)   | ≤1.5ppm   | <1.5ppm   |
| 重金属<br>Heavy metals(Pb)   | ≤15ppm  | <15ppm  |
| 干燥失重<br>Loss on drying  | ≤0.30%  | 0.12%   |
| 灼烧残渣<br>Residue on ignition                                       | ≤0.10%  | 0.08%   |
| 菌落总数<br>Aerobic plate count                                       | ≤1000CFU/g  | <1000CFU/g  |
| 酵母菌和霉菌  | ≤100CFU/g   | <100CFU/g   |

|  |                   |                  |
|--|-------------------|------------------|
| Yeast& Moulds  |                   |                  |
| 大肠菌群<br>Coliforms  | Negative          | Negative         |
| 大肠埃希菌<br>E.Coli  | Negative          | Negative         |
| 有机挥发杂质<br>Organic volatile impurities  | 应符合规定<br>Conforms | 符合规定<br>Conforms |
| 结 论：本产品符合 USP24 版要求。<br>Conclusion: This product conforms to the requirement of USP24 standard |                   |                  |

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