



上海麦角硫因生物科技集团有限公司

SHANGHAI EGT SYN BIO GROUP CO., LTD.

## 检测报告

## Certificate of Analysis

|                              |                                                                                                                                        |                              |                                   |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|
| 产品名称:<br>product name:       | 亚精胺三盐酸盐(DR.SPD®)<br>Spermidine trihydrochloride (DR.SPD®)                                                                              |                              |                                   |
| CAS 号:<br>CAS number:        | 334-50-9                                                                                                                               | 参考:<br>Reference:            | 企标<br>In-house                    |
| 批次号:<br>Batch number:        | YGPF26072301                                                                                                                           | 批次数量:<br>Batch quantity:     | 152kg                             |
| 生产日期:<br>Date of Production: | 2026 年 07 月 23 日<br>Jul. 23, 2026                                                                                                      | 有效日期:<br>Date of Expiration: | 2028 年 07 月 22 日<br>Jul. 22, 2028 |
| 类型<br>Type                   | <input checked="" type="checkbox"/> 生产商<br>☑Manufacturer <input type="checkbox"/> 贸易商<br>☐Trader <input type="checkbox"/> 其他<br>☐Other |                              |                                   |

| 项目<br>Items                           | 标准<br>Specifications            | 测试结果<br>Test Result | 检测方法<br>Methods            |
|---------------------------------------|---------------------------------|---------------------|----------------------------|
| 纯度<br>Purity                          | ≥98.0%                          | 99.5%               | GC                         |
| 理化控制:<br>Physical & Chemical Control: |                                 |                     |                            |
| 外观<br>Appearance                      | 白色晶体<br>White crystal           | 合格<br>Conform       | 肉眼观察<br>Visual observation |
| 溶解性<br>Solubility                     | 易溶于水<br>Soluble in water        | 合格<br>Conform       | USP<1236>                  |
| 粒径<br>Mesh size                       | 20 目通过率 95%<br>95% pass 20 mesh | 合格<br>Conform       | 过筛<br>Sieve                |
| 干燥失重<br>Loss on Drying                | ≤1.0%                           | 0.26%               | USP<731>                   |
| 炽灼残渣<br>Residue on ignition           | ≤1.0%                           | 0.09%               | USP<281>                   |
| 重金属控制:<br>Heavy Metals Control:       |                                 |                     |                            |
| 砷<br>Arsenic                          | ≤0.5 ppm                        | 合格<br>Conform       | USP<233>                   |
| 铅<br>Lead                             | ≤0.5 ppm                        | 合格<br>Conform       | USP<233>                   |
| 汞<br>Mercury                          | ≤1 ppm                          | 合格<br>Conform       | USP<233>                   |
| 镉<br>Cadmium                          | ≤1 ppm                          | 合格<br>Conform       | USP<233>                   |



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|                                                                                                                   |                  |                                     |          |
|-------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------|----------|
| 总重金属<br>Total Heavy Metals                                                                                        | ≤10 ppm          | 合格<br>Conform                       | USP<233> |
| <b>微生物控制:</b><br><b>Microbiological Control:</b>                                                                  |                  |                                     |          |
| 大肠杆菌<br>E. coli                                                                                                   | 不得检出<br>Negative | 合格<br>Conform                       | USP<62>  |
| 金黄色葡萄球菌<br>S. aureus                                                                                              | 不得检出<br>Negative | 合格<br>Conform                       | USP<62>  |
| 沙门氏菌<br>Salmonella                                                                                                | 不得检出<br>Negative | 合格<br>Conform                       | USP<62>  |
| 铜绿假单胞菌<br>P. aeruginosa                                                                                           | 不得检出<br>Negative | 合格<br>Conform                       | USP<62>  |
| 总大肠菌群<br>Total Coliform                                                                                           | <10 CFU/g        | 合格<br>Conform                       | AOAC     |
| 霉菌和酵母菌总数<br>Total Yeast and Mold Count                                                                            | ≤10 CFU/g        | 合格<br>Conform                       | USP<61>  |
| 总菌落数<br>Total Viable Aerobic Count                                                                                | ≤1000 CFU/g      | 合格<br>Conform                       | USP<61>  |
| 包装:无菌袋包装, 外包铝箔袋。<br>Packing: Sterile bag packaging, wrapped in aluminum foil bags.                                |                  |                                     |          |
| 存储:密封储存于阴凉干燥处, 避免阳光照射和潮湿。<br>Storage: Sealed and stored in cool and dry place, protect from sunlight and moisture |                  |                                     |          |
| 检验员 (QC): Yanhong Zhang<br>Analyst (QC):                                                                          |                  | 批准 (QA): Yilun Li<br>Approver (QA): |          |
| 日期: 2026.8.4<br>Date: Aug. 4, 2026                                                                                |                  | 日期: 2026.8.4<br>Date: Aug. 4, 2026  |          |