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## Certificate of analysis

|      |                                               |      |             |
|------|-----------------------------------------------|------|-------------|
| 品名   | 交联聚维酮<br>Polyvinylpyrrolidone<br>cross-linked | CAS  | 25249-54-1  |
| 货号   | A43221                                        | 批次   | OK20251108D |
| 生产日期 | 2025-11-08                                    | 复测日期 | 2027-11-07  |

执行标准:企业标准

| 分析项目<br>SPECIFICATION<br>PROPERTIES           | 技术指标<br>STANDARD                                                                                                         | 实测结果<br>RESULTS                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 性状<br>trait                                   | 本品为白色或类白色粉末。本品在水或乙醇中不溶。<br>This product is a white or off white powder. This product is insoluble in water or ethanol.   | 本品为类白色粉末。本品在水、乙醇中不溶。<br>This product is a white powder. This product is insoluble in water and ethanol.          |
| 鉴别-1<br>Identification -1                     | 应无蓝色产生<br>There should be no blue color produced                                                                         | 无蓝色产生<br>No blue generated                                                                                       |
| 鉴别-2<br>Identification -2                     | 本品的红外光吸收图谱应与对照品图谱一致<br>The infrared absorption spectrum of this product should be consistent with the reference spectrum | 本品的红外光吸收图谱与对照品图谱一致<br>The infrared absorption spectrum of this product is consistent with the reference spectrum |
| 酸碱度<br>pH                                     | 5.0~8.0                                                                                                                  | 6.2                                                                                                              |
| 水中可溶物, %<br>Soluble substances in water, %    | 5.0~8.0                                                                                                                  | 0.1                                                                                                              |
| N-乙烯-2-吡咯烷酮, %<br>N-ethylene-2-pyrrolidone, % | ≤1.0                                                                                                                     | 0.0001                                                                                                           |
| 过氧化物<br>peroxide                              | ≤0.001                                                                                                                   | 0.11                                                                                                             |
| 水分, %<br>moisture content, %                  | ≤0.35                                                                                                                    | 2.3                                                                                                              |

|                                                                     |                                                                                                                         |             |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------|
| 炽灼残渣, %<br>Burning residue, %                                       | $\leq 5.0$                                                                                                              | 0.07        |
| 重金属<br>heavy metal                                                  | $\leq 0.001\%$                                                                                                          | $< 0.001\%$ |
| 砷盐, %<br>Arsenic salt, %                                            | $\leq 0.0002$                                                                                                           | $< 0.0002$  |
| 含量测定, %<br>Content determination, %                                 | 按无水物计算, 含氮(N)应为<br>11.0~12.8<br>Calculated as anhydrous, the<br>nitrogen (N) content should<br>be between 11.0 and 12.8 | 12.2        |
| 粒度分布, $\mu\text{m}$<br>Particle size<br>distribution, $\mu\text{m}$ | D50:40~140                                                                                                              | 54          |
| 需氧菌总数, cfu/g<br>The total number of<br>aerobic bacteria, cfu/g      | $\leq 10^2$                                                                                                             | $< 10$      |
| 霉菌和酵母菌, cfu/g<br>Mold and yeast, cfu/g                              | $\leq 10^2$                                                                                                             | $< 10$      |

注：此产品仅限用于科研，禁止直接用于临床，如有失误，后果自负。

QA: 杜冰冰

QC: 谢辉

