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# Certificate of analysis

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|---|---|---|---|
| 品名 | 盐酸四氢唑啉<br>Tetrahydrozoline hydrochloride | CAS | 522-48-5 |
| 货号 | A24320 | 批次 | OK20260930Y |
| 生产日期 | 2026-09-30 | 复测日期 | 2028-09-29 |

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 |
|---|---|---|
| Appearance<br>外观 | White, odorless solid.<br>白色，无味的固体。 | Conform<br>符合 |
| Solubility<br>溶解度 | Freely soluble in water and in alcohol; very slightly soluble in chloroform; practically insoluble in ether.<br>可溶于水和酒精;极微溶，在氯仿;几乎不溶于乙醚的 | Conform<br>符合 |
| Melting point<br>熔点 | Melts at about 256 °, with decomposition.<br>在256°左右熔化，并分解。 | 255.3～256.5℃ |
| Identification<br>识别 | IR spectrum corresponds to the reference spectrum<br>红外光谱与参考光谱相对应 | Conform<br>符合 |
| | The retention time of the major peak of the Sample solution corresponds to that of the standard solution, as obtained in the Assay .<br>溶液与在化验中得到的标准溶液相对应。 | Conform<br>符合 |
| | Meets the requirements<br>满足要求 | Conform<br>符合 |

| | | |
|---|---|---|
| Residue on ignition<br>点火残留 | NMT 0.1% | 0.03% |
| Organic impurities<br>有机杂质 | “-Cyanotetraline NMT 0.1%<br>-氰四aline NMT 0.1% | 0.02% |
| | Any individual unspecified impurities NMT 0.1%<br>任何个别未指明杂质NMT 0.1% | 0.01% |
| | Total impurities NMT 0.1%<br>总杂质NMT 0.1% | 0.05% |
| Loss on drying<br>干燥损失 | NMT 1.0% | 0.02% |
| Residual solvents<br>残留溶剂 | Methanol NMT 3000ppm<br>甲醇NMT 3000ppm | Not detected<br>没有检测到 |
| | Ethanol NMT 5000ppm<br>乙醇NMT 5000ppm | 60ppm |
| | Dichloromethane NMT 600ppm<br>乙醇NMT 5000ppm<br>二氯甲烷NMT 600ppm | Not detected<br>没有检测到 |
| Assay<br>分析 | 98.0%～102.0%（calculated on the dried basis）<br>98.0%~102.0%(按干燥计算) | 100.1% |

**注：此产品仅限用于科研和生产，禁止直接用于临床，如有失误，后果自负。**

QA：杜冰冰　　QC:谢辉

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