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L-精氨酸-α-酮戊二酸 2:1 产品数据表

Product Data Sheet of

L-Arginine-α-Ketoglutarate2:1

外观 Description

本品为白色或类白色结晶性粉末。

L-Arginine-α-Ketoglutarate 2:1 is white or quasi-white crystalline powder.

产品特性 Product identification

化学名称 Chemical names:

2-氨基-5-胍基戊酸 - α -酮戊二酸 2:1

2-Amino-5-guanylvalerate-alpha-ketoglutarate2:1

CAS No.:5256-76-8

Einecs-No.:226-059-4

分子式 Empirical formula: $C_{17}H_{38}N_8O_{11}$

分子量 Molecular mass: 630.5

质量标准 Specifications

性状 Appearance: 白色或类白色结晶性粉末 White to off-white crystalline powder

鉴别 Identity: 与标准品保留时间一致 In accordance with standard retention time

比旋光度（以干基计）Optical rotation(on a dry basis): $+16.5^{\circ} \sim +18.5^{\circ}$

溶解性 Solubility: 易溶于水且溶液澄清 Clear

pH: 5.5 — 7.0

干燥失重 Loss on drying: $\leq 1.0\%$

水分 Water determination: $\leq 6.8\%$

炽灼残渣 Residue on ignition : $\leq 0.2\%$

氯化物 Chloride: $\leq 0.05\%$

铁盐 Iron: $\leq 10\text{ppm}$

重金属 Heavy Metal: $\leq 10\text{ppm}$

铅 Lead: $\leq 1\text{ppm}$

汞 Mercury: $\leq 0.1\text{ppm}$

镉 Cadmium: $\leq 1\text{ppm}$

砷 Arsenic: $\leq 1\text{ppm}$

含量（以干基计） Assay(on a dry basis): 98.0—102.0%

L-精氨酸含量 L- Arginine: 65.5—69.0%

α -酮戊二酸含量 α -Ketoglutarate: 26.5—29.0%

需氧菌总数 Total plate counts: $\leq 1000\text{cfu/g}$

酵母菌和霉菌 Yeast & Mold: $\leq 100\text{cfu/g}$

大肠埃希菌 E.coli: 不得检出/g Absence/g

沙门菌 Salmonella: 不得检出/10g Absence/10g

金黄色葡萄球菌 Staphylococcus Aureus: 不得检出/g Absence/g

稳定性和贮存 Stability and storage

稳定性：对光、氧及重金属均不敏感，是稳定的水溶性添加剂，避免加热及酸、碱。

Stability: it is not sensitive to light, oxygen and heavy metals. It is a stable water-soluble additive, avoiding heating and acid and alkali.

贮存：产品应密封贮存，防止日晒、雨淋、受潮，严禁与有毒有害的物品混贮。

Storage: the product should be sealed storage, prevent insolation, rain drench, be affected with damp, prohibit and poisonous and harmful article mix storage.

运输：产品在运输过程中应避免日晒雨淋、受潮，搬运装卸应小心轻放，严禁碰撞，防止包装破损，严禁与有毒有害或其他有污染的物品以及具有氧化性的物质混装、混运。

Transportation: the product shall be protected from sun, rain, and moisture during transportation. Handling, loading and unloading shall be handled with care. Collision is strictly prohibited to prevent packaging damage.

用途 Uses

食品添加剂，保健品生产原料。

Food additives, raw materials for health products production.

安全性 Safety

本产品用于预期用途是安全的。应采取适当的防护措施和个人卫生，避免误食或直接接触。有关详细的安全信息和必要的预防措施，请参阅相关的材料安全数据表。

This product is safe for the intended use. Avoid ingestion or direct contact by applying suitable protective measures and personal hygiene. For full safety information and necessary precautions, please refer to the respective Material Safety Data Sheet.