ClearLine	Technical data sheet Media Powder	Ref : 509265

L-Alanyl-L-Glutamine, stable Glutamine

Storage conditions: Room temperature

Shelf life: 36 months

Composition: L-Alanyl-L-Glutamine

Molecular weight: 217,22 g/mol

CAS Number: 39537-23-0

Chemical Formula: $C_8H_{15}N_3O_4$

Appearance: White to off-white powder

Solubility: Soluble in water at room temperature (50mg/l clear solution).

Endotoxin: < 1 EU/ml

Assay: 99.0% - 101.0%

Chloride: < 0.02 %

Heavy metal: < 10 ppm

Loss on drying: < 1 %

Residue on ignition: < 0.2%

Recommended use:
- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store the product in a dry area
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall…)
- Protect the product from any form of humidity
- Use, in one time, after opening, the entire quantity of product of the container. If it is not possible, close the container immediately after sampling the quantity of powder required.

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The product is intended to be used in vitro for research or further manufacturing only and not for use as an Active Pharmaceutical Ingredient or food or animal feed.

Application:
L-Alanyl-L-Glutamine (Ala-Gln) is a dipeptide that is used as a substitute for L-Glutamine in mammalian cell culture media. L-Glutamine is unstable in solution and forms ammonia which can have deleterious effects on cells in culture. L-Alanyl-L-Glutamine is stable to heat sterilization and is less ammoniagenic than L-Glutamine, which contributes to its advantages as a media component.

Uses:
Not applicable

Signs of deterioration:
Not applicable

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