



Product Data Sheet

Cat # RP-1552

Cyclosporine-A

Size: 1 gram

4 gram

Description:

Cyclosporine is a cyclic polypeptide immunosuppressant agent consisting of 11 amino acids and having a molecular weight of 1202.64. It is produced as a metabolite by the fungus species *Beauveria nylaea*. Chemically, cyclosporine is designated as [R-[R*,R*-(E)]]-cyclic(L-alanyl-D- alanyl-N-methyl-L-leucyl-N-methyl-L-leucyl-N-methyl-L-valyl-3-hydroxy-N, 4-dimethyl-L-2-amino-6-octenoyl-L- α -amino-butryl- N-methylglycyl-N- methyl-L-leucyl-L-valyl-N-methyl-L-leucyl). Molecular Formula: C₆₂H₁₁₁N₁₁O₁₂.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

The Cyclosporine-A was lyophilized from a concentrated (1mg/ml) solution with no additives.

Solubility:

It is recommended to reconstitute the lyophilized Cyclosporine A in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Cyclosporine although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Cyclosporine should be stored at 4°C between 2-7 days and for future use below -18°C.

Please prevent freeze-thaw cycles.

Purity:

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC,
- (b) Mass Spectral Analysis (MALDI-TOF exhibits correct Mw).

Usage:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. If supplied in powder then reconstitute it in 100 μ l water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage..

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