



CERTIFICATE OF ANALYSIS

PRODUCT: **Cyclosporin A**
C₆₂H₁₁₁N₁₁O₁₂, M.W. 1202.6, CAS# [59865-13-3]

PRODUCT NUMBER: C-1199

LOT NUMBER: A8587

APPEARANCE: White Powder

SOLUBILITY: Soluble in methanol, 100% ethanol, acetone or petroleum ether; insoluble in water.

ASSAY: 100.4% (on dry basis)

LOSS ON DRYING: 0.1%

HEAVY METALS:	<u>Specifications</u>	<u>Actual</u>
	≤20 ppm	Confirms

RELATED COMPOUNDS:	<u>Specifications</u>	<u>Actual</u>
	Any single impurity: ≤0.7%	0.3%
	Sum of impurities: ≤1.5%	0.9%

OTHER DATA: Isolated from *Fusarium Solani*. Potent immunosuppressor. Inhibits nitric oxide (NO) synthesis induced by interleukin 1 α , LPS, and TNF α . Cyclosporin A-cyclophilin complexes block calcineurin (protein phosphatase 2B), a key enzyme in T cell activation. Also an inhibitor of the mitochondrial permeability transition pore (MPTP) and preventor of necrosis in several models.

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STORAGE & HANDLING: Keep cool and dry at +4 °C. **WARNING: TOXIC!**
MAY BE CARCINOGENIC. MAY BE TERATOGENIC.

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT

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