

CERTIFICATE OF ANALYSIS

PRODUCT:	Calmodulin, Porcine, Fluorescein M.W. 16,750 Da				
PRODUCT NUMBER:	C-1435				
LOT NUMBER:	D1074				
APPEARANCE:	Dry white, lyophilized pellets				
FORMULATION:	Lyophilized from 5% sucrose, 10 mM sodium phosphate, pH 7.0 at a protein concentration of approximately 1 mg per ml in a dark plastic screw-cap 1.5 ml vial.				
SOLUBILITY:	Completely soluble in water. Clear and colorless at 1mg/mL				
DESCRIPTION:	FITC labeled Mammalian calmodulin				
PURITY:	<table><thead><tr><th><u>SPECIFICATIONS:</u></th><th><u>RESULTS:</u></th></tr></thead><tbody><tr><td>This preparation is greater than 98% by SDS-PAGE stained with Coomassie blue having a single band at approximately 17 kDa.</td><td>>98%; by SDS-PAGE stained with Coomassie blue.</td></tr></tbody></table>	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>	This preparation is greater than 98% by SDS-PAGE stained with Coomassie blue having a single band at approximately 17 kDa.	>98%; by SDS-PAGE stained with Coomassie blue.
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FLUOROCHROME / PROTEIN RATIO:	Fluorescein /CaM = 0.5 to 1.0 as determined by absorbance. 0.70				
UV ANALYSIS:	≥0.18; Absorbance 276 nm of a 1mg/mL in water. 0.18; characteristic hyperfine structure (phenylalanine) with no tryptophan absorbance observed (Un-conjugated Calmodulin).				

ACTIVITY:

Greater than 35,000 units per mg protein. One unit will stimulate 0.01 unit of 3':5'-cyclic nucleotide phosphodiesterase in a 3 ml reaction volume at pH 7.5 and 30 °C, to 50% of the maximum activity of the enzyme when saturated with CaM in the presence of 100 μM Ca²⁺

40,000 units per mg protein.

The animal source of this product was collected at a USDA licensed establishment. The animals received ante and post mortem health inspection at the abattoir by a US FSIS inspector and they were apparently free from infectious and contagious diseases. All donor animals were sourced from the United States.

STORAGE & HANDLING:

Store desiccated at -20°C.

CAUTION: For research 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:

