

## CERTIFICATE of ANALYSIS

<b>PRODUCT:</b>	<b>Calmodulin, Porcine</b> M.W. 16,750 Da
<b>PRODUCT NUMBER:</b>	C-1431
<b>LOT NUMBER:</b>	F1267
<b>APPEARANCE:</b>	Dry white, lyophilized pellet
<b>SOLUBILITY:</b>	Soluble in 1mg/mL of H <sub>2</sub> O
<b>FORMULATION:</b>	Lyophilized from 5% sucrose, 10mM sodium phosphate, pH 7.0 at a protein concentration of approximately 1 mg/ml.
<b>PURITY:</b>	>98% by SDS-PAGE stained with Coomassie blue having a single band at ~17 kDa.
<b>ACTIVITY:</b>	40,000 units/mg protein.
<b>UNIT DEFINITION:</b>	One unit will stimulate 0.01 unit of 3':5'-cyclic nucleotide phosphodiesterase in a 3 ml reaction volume at pH 7.5 at 30 °C, to 50% of the maximum activity of the enzyme when saturated with CaM in the presence of 100 μM Ca <sup>2+</sup> .
<b>UV ANALYSIS:</b>	0.18; characteristic hyperfine structure (phenylalanine) with no tryptophan absorbance observed. Absorbance 276 nm of a 1 mg/ml in H <sub>2</sub> O
<b>PRODUCT DESCRIPTION:</b>	Mammalian calmodulin isolated from porcine brain is suitable for applications requiring active pure calmodulin.
<b>STORAGE &amp; HANDLING:</b>	Store desiccated at -20°C.

*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 USFSIS inspector and they were apparently free from infectious and contagious diseases. All donor animals were sourced from the united states.*

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: KS