



# Certificate

## CALCIUM PANTOTHENATE

$\beta$ -Alanine, *N*-(2,4-dihydroxy-3,3-dimethyl-1-oxobutyl)-, calcium salt (2:1), (*R*)-

USP Catalog No.: 1087009

USP Lot No.: R10000

	CAS No.: 137-08-6
	Molecular Formula: C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub>
	Molecular Weight: 476.53

**LABEL TEXT**

For use with specified USP compendial tests.  
Not for use as a drug. See SDS prior to use  
at [www.usp.org/sds](http://www.usp.org/sds).

**REFERENCE STANDARD****CALCIUM PANTOTHENATE 300 mg**

For quantitative applications, determine the water content  
titrimetrically at the time of use. Use as is material and  
correct weight for water content. Use a value of 0.992 mg of  
calcium pantothenate per mg of material on the anhydrous  
basis. Keep container tightly closed. Store in a refrigerator.  
Material is hygroscopic.

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666  
Cat. No. 1087009 Material mfd. in United Kingdom

LOT: R10000



*Jeri L. Joth*

*Quality Assurance*

**Assigned Value**

Please refer to the USP Reference Standard label for the assigned value of the specific lot. If the lot was developed for qualitative use, it will not have an assigned value.

**Valid Use Date**

It is the responsibility of the user to ascertain that a particular lot of a USP Reference Standard has official status either as a "Current lot" or as a "Previous lot" within the assigned valid use date. The online USP Reference Standards Catalog and the online USP Store at [www.usp.org](http://www.usp.org) are updated daily. USP recommends referring to one of these sources prior to using a USP Reference Standard to make sure the lot is valid for use.

**Storage**

Storage conditions are lot-specific and may change from one lot to another. If no specific directions or limitations are provided on the USP Reference Standard label, the conditions of storage shall include storage at room temperature and protection from moisture, light, freezing, and excessive heat.

**Instructions for Use**

Follow the instructions provided on this Certificate, on the label of the USP Reference Standard, and in the associated USP documentary standard(s). Please refer to General Chapter <11> for additional information.

**Non-USP Compendial Use**

USP Reference Standards are for use in analytical or laboratory applications as specified in USP compendia. They are not for use in humans or animals as drugs or medical devices. It is the responsibility of the user to determine the suitability of the USP Reference Standard for non-USP compendial uses.

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