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## Specification Sheet

### CALCIUM D-PANTOTHENATE USP (Vitamin B5)

| Code No. | SCN No. | CAS No.  | Effective Date    | Product Manager | Rev. No. | Approved By |
|----------|---------|----------|-------------------|-----------------|----------|-------------|
| CPAGIP   | 2998    | 137-08-6 | December 15, 2011 | LR              | No. 1    | CDS         |

**MOLECULAR FORMULA:** C<sub>18</sub>H<sub>32</sub>CaN<sub>2</sub>O<sub>10</sub>

**MOLECULAR WEIGHT:** 476.53

**CHARACTERISTICS:** White, bitter, odorless powder that is slightly hygroscopic and freely soluble in water and glycerin, and practically insoluble in alcohol, chloroform and ether.

| SPECIFICATIONS: | Identification:                   |                        |
|-----------------|-----------------------------------|------------------------|
|                 | A. IR                             | To pass test           |
|                 | B. Calcium                        | To pass test           |
|                 | Specific rotation                 | +25.0° and +27.5°      |
|                 | Alkalinity                        | To pass test           |
|                 | Loss on drying (105° for 3 hours) | 5.0% max               |
|                 | Heavy metals                      | 0.002% max             |
|                 | Ordinary impurities               | 1.0% max               |
|                 | Residual solvents                 | Meets requirements     |
|                 | Nitrogen content                  | 5.7% - 6.0%            |
|                 | Assay (as calcium content)        | 8.2% - 8.6%            |
|                 | Bulk Density (Loose)              | 0.4 g/ml and 0.75 g/ml |
|                 | Particle Size (thru 40 mesh)      | 98.0% min              |

**STOCKING POINTS:** Chicago, IL

**PACKAGING:** 25 kg drums

**APPLICATIONS:** Food and nutritional supplement.

**SPECIAL STORAGE INSTRUCTIONS:** Store in airtight containers protected from direct sunlight and moisture, unless otherwise specified.

**SHELF LIFE:** 3 years from the date of manufacturing

**OTHER:** The manufacturing site is WHO cGMP, ISO 9000-2004 and ISO 14000-2006 certified. The manufacturer has achieved a COS issued by the EDQM. It is certified by NQA to the requirements of HACCP and under the Codex Alimentarius. The product is Kosher and Halal certified.