

Specification

Technical Data Sheet

CAS**137-08-6****STORAGE****2 to 8 °C****MOLECULAR WEIGHT****476.54****PRODUCT****D-Pantothenic acid calcium salt (TF)****Product number** 90036907**CAS number** 137-08-6**Molecular formula** C₁₈H₃₂CaN₂O₁₀**Molecular weight** 476.54 g/mol**PARAMETER****SPECIFICATION****Appearance**

White powder

Assay

98 - 101.0%

Conclusion

Up to EP9.0

Impurity A

≤0.5%

Impurity B

≤0.8%

Impurity C

≤0.3%

Loss on Drying

≤0.5%

pH

6.8 - 8.0

Salmonella

Negative

Specific rotation

+25.5° - +27.5°

Total plate count

≤10cfu/g

Cadmium (Cd)

≤1.0ppm

Chloride (Cl-)

≤0.02%

Clarity and colour of solution

Clear, colourless

Identification of Calcium

White precipitate, insoluble in glacial acetic acid, soluble in hydrochloric acid

PARAMETER	SPECIFICATION
Identification of Cupric sulfate	Blue
Infrared Identification	Conforms to standard spectrum
Solubility	Freely soluble in water, soluble in glycerin, practically insoluble in alcohol, chloroform and ether
Unspecified impurities for each impurity	≤0.1%
Unspecified impurities in total	≤1.2%
Arsenic (As)	≤1.0ppm
Calcium (Ca)	≤3.0%
E. Coli	Negative
Identification (TLC)	Conforms with standard
Impurity E	≤0.25%
Impurity H	≤0.1%
Lead (Pb)	≤2.0ppm
Mercury (Hg)	≤0.1ppm
Mould & Yeast	≤10cfu/g

SPECIFICATION STATEMENT	The values stated above represent the standard specification for this product, issued under Molekula Ltd 's quality management system. Batch-specific results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

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