

SPECIFICATION

Product Name: Vitamin B8 (Inositol)
Chemical Formula: C ₆ H ₁₂ O ₆
CAS Number: 87-89-8
Molecular Weight: 180.16 g/mol
Appearance: White or off white color powder or crystals.
Odor: Odorless.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Confirms	In accordance with standard retention time.
Loss on drying	%	0.19%	NMT 0.5
Residue on ignition	%	0.11%	NMT 0.5
Heavy Metal	PPM	Less than 10	NMT 10
Impurity content	%	0.29%	Unknown single impurity ≤ 0.5
Impurity content	%	0.23%	Unknown single impurity ≥ 0.5
Lead	PPM	Not Detected	NMT 1
Total mercury	PPM	Not Detected	NMT 1
Cadmium	PPM	Not Detected	NMT 1

Assay	%	99.0%	NLT 98.0
Total plate count	cfu/g	<1000	NMT 1000
Yeast and Mould	cfu/g	<100	NMT 1000
E. coli	Absence	Conforms	Absence 10g
Salmonella	Absence	Conforms	Absence 10g

Physical Properties

- Solubility: Highly soluble in water. Slightly soluble in alcohol. Practically insoluble in most organic solvents such as ether and chloroform.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry place. Recommended temperature: 15–30°C (59–86°F). Keep the container tightly closed. Protect from moisture and humidity (inositol is hygroscopic to some extent). Protect from direct sunlight and excessive heat. Store in the original container or a moisture-resistant container.

Applications

- Use: It is commonly used in dietary supplements, energy drinks, functional foods, and pharmaceutical formulations to support brain health, mood balance, and metabolic wellness.
 - Dosage: Depends on the intended application, target population, and specific product formulation.

Packaging

- Standard Packing: 25 kg Fiber drum, 1 kgs as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.