



Technical Data Sheet

General Information:

Product Name: Liposomal L-Valine

Brand: LiposoMore®

Purity: 68% L-Valine (dry basis)

Appearance: Light yellow to yellowish powder

Solubility: Dispersible in water

Particle Size: D90 < 200 nm (Nano-liposome)

Packaging: 1kg/aluminum foil bag, 10kg/carton or as per customer requirements

Storage: Store in a cool, dry place. Avoid heat, light, and moisture.

Shelf Life: 24 months if properly stored in unopened packaging

Product Description

Liposomal L-Valine is a high-purity essential amino acid ingredient designed for superior delivery and absorption in dietary supplement formulations. Utilizing advanced liposome technology, L-Valine is encapsulated within lipid bilayers, protecting it from gastric degradation and improving cellular uptake. This form is particularly beneficial in sports nutrition, recovery products, and general health supplements where enhanced bioavailability is critical.

Applications

- Sports Nutrition: Supports muscle growth, endurance, and recovery in pre-workout, intra-workout, and post-workout formulas.
- Medical Nutrition: Ideal for individuals with compromised protein metabolism, such as those recovering from surgery or illness.
- General Wellness: Can be used in multivitamin or amino acid complexes to maintain nitrogen balance and muscle health in aging populations.

Key Benefits

- Enhanced Bioavailability: Liposomal delivery significantly improves absorption and cellular transport compared to conventional L-Valine.
- Muscle Health Support: As one of the three branched-chain amino acids (BCAAs), it helps fuel muscle activity, aids repair, and reduces muscle breakdown.

- Sustained Energy Release: Plays a crucial role in energy production during intense physical activity.
- Gentle on Digestive System: Liposome protection reduces GI irritation and ensures more efficient delivery.
- Stable and Versatile Form: Suitable for powders, capsules, sachets, and functional beverages.
- Science-backed Performance: Trusted for its role in muscle metabolism and tissue repair, especially for athletes and active individuals.

Specifications

ITEMS	SPECIFICATIONS	RESULTS
Appearance	White to almost white particles and powders	Pass
Odor	Odorless	Pass
Solubility	Dispensible in water	Pass
Purity(L-valine)	68.0%	70.8%
Loss on Drying	≤2.0%	6.0%
Total Heavy Metal	≤10ppm(ICP-MS)	< 10ppm
Lead(Pb)	≤3ppm(ICP-MS)	< 3ppm
Mercury(Hg)	≤0.1ppm(ICP-MS)	< 0.1ppm
Cadmium(Cd)	≤1.0 ppm(ICP-MS)	< 1.0ppm
Arsenic(As)	≤1.0 ppm(ICP-MS)	< 1.0ppm
Total Plate Count	≤1000cfu/g(USP2021)	< 100 cfu/g
Molds & Yeasts	≤100cfu/g(USP2021)	< 10 cfu/g
E.Coli	Negative/gram(USP2022)	Negative
Salmonella	Negative in 25 gram(USP2022)	Negative
Staphylococcus Aureus	Negative in 25 gram	Negative

Recommended Dosage

300–1000 mg per day or as recommended by formulators depending on the end-product and target population.

Regulatory Status

- Complies with dietary ingredient standards in major markets
- Non-GMO, Allergen-free, Halal certified (if required)

Contact Information



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