

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: INSTANT BCAA  
BATCH NO: 211SBCM17061447  
QUALITY: IN-HOUSE STANDARD  
QUANTITY: 1000KGS

PRODUCTION DATE: 2017.6.14  
REPORT DATE: 2017.6.17  
RE-TEST DATE: 2022.6.13  
PATENT NO: 201310693215.1

Description: Instant BCAA powder is an instant blend of three branch chain Amino acid in a ratio of 2:1:1. Sunflower Lecithin is added as surfactant. It can be dissolved in water very fast, suitable for sport drink, solid instant formula.

Tests	Limits	Test results
Appearance	White to off-white fine powder	white fine powder
Assay (Titration)	≥95.0%	96.9%
Leucine Content(HPLC)	45.0~55.0%	46.4%
Isoleucine Content(HPLC)	22.5~27.5%	23.2%
Valine Content(HPLC)	22.5~27.5%	23.3%
Sunflower Lecithin	0.5%~1.0%	0.8%
Transmittance	≥98.0%	99.1%
Bulk Density	≥0.35g/ml	0.52g/ml
Tapped Density	≥0.50g/ml	0.69g/ml
Heavy metals(Pb)	≤10ppm	<10ppm
Lead	≤3ppm	< 3ppm
Cadmium	≤1ppm	< 1ppm
Arsenic(As)	≤1ppm	< 1ppm
Mercury	≤0.1ppm	< 0.1ppm
Loss on drying	≤1.0%	0.21%
Residue on ignition	≤1.0%	0.12%
Total plate count	≤1000cfu/g	<1000cfu/g
Yeast and Molds	≤100cfu/g	<100cfu/g
E.Coli	Negative	Negative
Salmonella	Negative/25g	Negative/25g
Particle size	≥90% through 80 Mesh	94%through 80 Mesh
Packaging: 25 KG/Drum, packed with double layer polyethylene bag as iner. Storage and Handling: Store in a cool, dry area and not in direct sunlight. The preferred storage temperature should not exceed 0°C~40°C. Shelf Life: It is recommended to use the entire contents after opening.		
Conclusion: Passed test according to the in-house standard.		