



# Technical Data Sheet

## TBIO Amino Acid Powder

Physical Properties	Chemical Properties	AminoGram (+/- 5 %)		Heavy Metals (+/- 5 %)
Form: Powder	Total Free Amino Acid : 40 %	L-Met: 0.30 %	L-Asp: 3.75 %	Cd: 2.0 ppm
Color: Light Yellow	Ammonium Chloride : 50 %	L-Ile: 1.20 %	L-Thr: 2.25 %	Zn: 2.5 ppm
Smell: Special Aromatic Smell	Total Organic Matter : 50 %	L-Leu: 1.85 %	L-Ser: 5.50 %	Cu: 2.0 ppm
Water Solubility at 20°C: Completely	Organic Nitrogen: 6.5 % +/- 5 %	L-Tyr: 0.60 %	L-Glu: 4.50 %	Hg: 0.5 ppm
pH (10% solution at 20 °C): 4.8 – 5.1		L-Phe: 2.00 %	L-Gly: 4.50 %	Ni: 1.0 ppm
Bulk Density: 0.47 g/cm <sup>3</sup>		L-Lys: 0.75 %	L-Ala: 2.00 %	Pb: 3.5 ppm
Moisture: 5 %		L-His: 0.45 %	L-Cys: 1.30 %	
		L-Arg: 2.90 %	L-Val: 2.25 %	
		L-Pro: 4.50 %	L-Trp: N/A	

### General Information

This compound amino acids powder is obtained from the hydrolysed protein, containing 17 free amino acids, perfect water solubility, quite stable chemical properties together with the average molecular weight is less than 1000.

This product is stable, safe, non-toxic, non-stimulant and easily deliquesce.

### Packaging and storage

Available in 1Kg, 5Kg, 10Kg, 20Kg bag.

To be stored in a dry, clean, dark, well ventilated, moisture proof place. When stored under normal conditions in original unopened containers, no change of its physical, chemical and biological properties will occur in a minimum of 2 years.

\* **Caution:** Due to Product Natural Origin, we strongly recommend before to be used to run compatibility test with other ingredients that are going to be Mixed and / or Formulated. TBIO CROP SCIENCE, will not be liable under any circumstances, for their behavior in the above mentioned mixtures and / or formulations, or the consequences of using the Products.