

## Amino Acid & Nutrition Profile

The proteins are converted in to amino acids by the body during the Digestion metabolism. The Following amino acid profiles shows the protein content for the Different protein composition and how human body converts it into metabolizable amino acids. However, these results are obtained by the standard food testing process in a lab, the individual human results may vary to the degree of digestion and metabolism rate.

### Applications:

**EnNutrica's Formula** products are Milk proteins at different concentration levels. It can be used for Protein Enrichment of Nutrition Products, Supplement Products, Bars, Protein Beverages, Dairy Drinks, Breakfast Cereals and a wide variety of food products. It is also used as and Emulsifier or Stabilizer in Liquid Nutrition Formulas and Dairy Products. It also gives Excellent Mouth feel and taste making it the Ultimate Choice for Fortifying any Food Products.

### Amino Acid Profile:

#### Amino Acid (g/100g powder)

Product	Formula 8+	Formula 7+	Formula 5+	Skimmed Milk Powder
Protein	< 80 %	Min. 70%	Min. 50%	Min. 34%
Alanine	1.84	1.51	1.06	0.88
Arginine	2.35	1.99	1.44	1.02
Aspartic Acid	4.46	3.64	2.76	2.14
Cysteine	0.29	0.26	0.17	0.10
Glutamic acid	12.50	10.25	8.07	6.10
Glycine	1.32	1.10	0.80	0.56
Histidine	1.79	1.58	1.16	0.83
Isoleucine	3.29	2.78	2.14	1.50
Leucine	5.82	4.96	3.82	2.72
Lysine	4.46	3.59	2.75	2.11
Methionine	1.44	1.27	0.93	0.61
Phenylalanine	3.31	3.00	2.17	1.48
Proline	7.32	6.22	4.82	3.49
Serine	3.66	3.06	2.31	1.67
Threonine	2.76	2.36	1.76	1.26
Tryptophan	0.82	0.78	0.57	0.40
Tyrosine	3.24	2.84	1.99	1.22
Valine	3.80	3.19	2.47	1.76

## Nutrition Profile:

### Nutrition Profile (/100g powder)

	Formula 8+	Formula 7+	Formula 5+	Skimmed Milk Powder
Product	MPC 80	MPC 70	MPC 50	SMP
<b>Protein</b>	<b>&lt; 80 %</b>	<b>Min. 70%</b>	<b>Min. 50%</b>	<b>Min. 34%</b>
<b>Energy (Kcal)</b>	370	370	362	357
<b>Fat (g)</b>	2.0	2.0	2.0	1.0
Saturated Fatty Acids (g)	0.9	0.6	0.6	0.5
Monosaturated Fatty Acids (g)	0.2	0.2	0.2	0.1
Poly Unsaturated Fatty Acids (g)	0	0	0	0
Trans Fatty Acids (g)	0	0	0	0
Cholesterol (g)	0	0	0	0
Carbohydrates (g)	8	18	36	52
<b>Calcium (g)</b>	2.2	2.0	1.8	1.6
<b>Phosphorous (g)</b>	1.3	1.3	1.2	1.1
<b>Sodium (g)</b>	0.09	0.07	0.05	0.03