

Certificate of Analysis

Product Name	Spirulina Powder	Batch Number	YG20210721
Origin	China	Testing basis	GB19643
Plant part used	Food plant	Manufacture Date	20210721
Quality grade	Food grade	Analysis Date	20210726
Quantity	5000kg	Expiry Date	20230720

ITEMS	SPECIFICATION	RESULTS	TEST METHODS
Physical & Chemical			
Colour	Uniform Colour; green or blue-green	Uniform, blue-green	NY/T1709-2011
Taste	Algae flavor	Algae flavor	NY/T1709-2011
Outward appearance	Uniform powder	Uniform powder	NY/T1709-2011
impurities	No visible impurities	No visible impurities	NY/T1709-2011
Density	$\leq 0.6\text{g/cm}^3$	$\leq 0.43\text{g/cm}^3$	Q/EQKC0001S
Mesh size	≥ 80 mesh	100mesh	GB/T16919-1997
Moisture, %	≤ 7.0	6.7	GB5009.3-2010
Protein, %	≥ 60	68.46	GB5009.5-2010
Ash, %	≤ 7	6.42	GB5009.4-2010
Phycocyanin ,g/kg	≥ 8	12.60	SN/T1113-2002
Chlorophyll,mg/100g	$\geq 1.2 \times 10^3$	1.35×10^3	SN/T1113-2002
Carotenoids,g/kg	≥ 0.2	0.46	GB/T5009.83-2003
Heavy metals			
Total heavy metals, mg/kg	≤ 3.0	1.76	GB/T5009.74-2003
Hg (Mercury) ,mg/kg	≤ 0.3	0.02	GB/T5009.17-2003
As (Arsenic) ,mg/kg	≤ 1.0	0.66	GB/T5009.11-2003
Pb (Lead) ,mg/kg	≤ 2.0	0.25	GB5009.12-2010
Cd (Cadmium)	≤ 0.1	0.002	GB/T5009.15-2003
Microbiological			
Total plate count, cfu/g	$\leq 1 \times 10^5$	5.61×10^4	GB4789.2-2010
Moulds and yeasts, cfu/g	≤ 100	< 10	GB4789.15-2010
E.Coli	≤ 1.0	$< 0.3\text{MPN/g}$	GB4789.3-2010
Salmonella	Not be detected	Not Detected	GB4789.4-2010
Staphylococcus Aureus	Not be detected	Not Detected	GB4789.10-2010