

Certificate of Analysis

Product Name	Sodium Copper Chlorophyllin	Mfg. Date	2020.11.15
Batch No.	KN220111502	Testing Date	2020.11.16
CAS No.	11006-34-1	Exp. Date	2022.11.14

Items	Specifications	Results
Appearance	Dark green fine powder	Conforms
Identification		
Absorptance	≥ 568	575
Assay	$\geq 100\%$	101%
Ratio(A_{405}/A_{630})	3.0-3.9	3.9
Other components		
Content of total copper	$\geq 4.25\%$	4.66%
Content of chelated copper	$\geq 4.0\%$	4.65%
Content of sodium	5%-7% on dried basis	6%
Nitrogen determination	$\geq 4.0\%$	4.7%
Impurities		
Limit of ionic copper	$\leq 0.25\%$ on dried basis	0.01%
Residue on ignition	$\leq 30\%$ on dried basis	29%
Arsenic	$\leq 3\text{ppm}$	0.5ppm
Lead	$\leq 10\text{ppm}$	0.5ppm
Iron	$\leq 0.50\%$	0.09%
Specific tests		
Total plate count	$\leq 1000\text{cfu/g}$	$< 10\text{cfu/g}$
Yeast	$\leq 100\text{cfu/g}$	$< 10\text{cfu/g}$
Mould	$\leq 100\text{cfu/g}$	$< 10\text{cfu/g}$
Salmonella	Absence	Conforms
E.Coli.	Absence	Conforms
pH	9.5-10.7 (in a solution 1 in 100)	10.5
Loss on drying	$\leq 5\%$ (at 105°C for 2 hours)	2.0%
Test for fluorescence	No fluorescence is visible	Conforms
sConclusion:	Conforms to USP43	