



**SPIRULINE BIO - 3686**  
**COMPRIMES 500 MG**  
**Typical CoA**



<b>Product Name</b>	<b>100% Organic Spirulina (<i>Arthrospira platensis</i>) Tablet – 500 mg</b>
<b>Product Code</b>	<b>OST – A2</b>
<b>Batch Number</b>	<b>P2STNG2018</b>
<b>Month of mfg</b>	<b>JULY-2020</b>
<b>Batch Size</b>	<b>2000.000 KG</b>
<b>Best before</b>	<b>With in 36 months from the month of mfg under proper storage condition</b>
<b>Plant part</b>	<b>Whole cell</b>
<b>Country of Origin</b>	<b>India</b>

<b>PARAMETERS</b>	<b>SPECIFICATION</b>	<b>RESULT</b>	<b>TEST METHOD / REFERENCE</b>
<b>PHYSICAL PROPERTIES</b>			
Colour	Dark green	Dark Green	Visual
Odour & Taste	Mild	Mild	Organoleptic test
Shape	Round	Round	Visual
Average Weight (mg)	500 (± 25mg)	505	Indian pharmacopoeia
Thickness (mm)	5.00 – 6.00	5.28	In house method
Hardness (Kg / sq.cm)	3.00 – 7.00	5.00	
Friability (%)	NMT 1.00	0.02	Indian pharmacopoeia
<b>PHYSICAL AND CHEMICAL ANALYSIS</b>			
Protein (%)*	NLT 60.00	69.47	Nitrogen Determination USP <461>
Loss on Drying (%)	2.50 – 7.00	5.13	Loss on drying USP <731>
Total Ash (%)	5.00 – 9.00	7.15	Total Ash USP <561>
Limit of Microcystin (µg/g)**	NMT 0.5	Complies	Current USP Spirulina monograph
<b>PIGMENT ANALYSIS</b>			
Total Carotenoids (%)*	NLT 0.360	0.499	Strickland and Parsons (1972). A practical Handbook of Seawater Analysis.
Beta Carotene (%)*	NLT 0.140	0.220	Ranganna .S. (1986). Handbook of analysis and QC for fruit & veg. Products.
Chlorophyll "A" (%)**	NLT 1.10	1.86	Vonshak A. 1997.Spirulina platensis ( <i>Arthrospira</i> ) Physiology, cell biology and biotechnology



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Crude Phycocyanin (%)*	NLT 14.00	18.62	Boussiba, Arch.Microbial., 120:155-159,1979
Total Pheophorbides (%)**	NMT 0.120	0.007	a) Test method for Spirulina by JHFA, Environmental Food Number 99 (1981) b) Seward R. Brown. Absorption Coefficients of Chlorophyll Derivatives. J.Fish. Res. Bd Canada 25 (3) 523 – 540, 1968
Existing Pheophorbides (%)**	NMT 0.080	0.004	
<b>FATTY ACID PROFILE</b>			
<b>Fatty Acids</b>	<b>Identification</b>	Complies	By GC, Current USP Spirulina monograph
Palmitic Acid (%)	35.00 – 60.00	51.63	
Palmitoleic Acid (%)	2.00 – 8.00	3.15	
Stearic Acid (%)	1.00 – 5.00	1.68	
Oleic Acid (%)	1.00 – 7.00	2.67	
Linoleic acid (%)	13.00 – 25.00	20.33	
Gamma Linolenic Acid (%)	13.00 – 27.00	20.54	
Alpha Linolenic Acid (%)	NMT 0.50	Not Detected	
<b>MICROBIAL ANALYSIS</b>			
Standard Plate Count (cfu/g)	NMT 50,000	6000	Current USP Spirulina monograph 1.Microbial Enumeration tests USP <2021> 2.Absence of Specified Microorganisms USP <2022>
Yeasts and Molds Count (cfu/g)	NMT 100	<10	
Bile Tolerant Gram – Negative Bacteria (cfu/g)	NMT 100	Fewer than 10	
E.coli (/10g)	Absence	Absence	
Salmonella (/10g)	Absence	Absence	
Staphylococcus (/10g)	Absence	Absence	
<b>ELEMENTAL CONTAMINANTS &amp; PESTICIDES ANALYSIS**</b>			
Lead (µg/g)	NMT 0.20	Complies	By ICP –MS. Official methods of analysis of AOAC International,18 <sup>th</sup> Edition
Arsenic (µg/g)	NMT 0.50	Complies	
Cadmium (µg/g)	NMT 0.20	Complies	
Mercury (µg/g)	NMT 0.025	Complies	



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Pesticides	As per USP Specification	Complies	By GC –MS. Official methods of analysis of AOAC International, 18 <sup>th</sup> Edition

\* Results on dry basis

\*\* Not analyzed for every batch and analyzed as per quality plan.

**NOTE:**

1. To be stored at controlled room temperature.
2. Do not leave the bags in an open condition to avoid external contaminations.
3. Once opened flush the bags with nitrogen and reseal for preventing nutrient deterioration and for further storage.

**FORMULATION**

<b>Ingrédients</b>	<b>Spécifications</b>	<b>Quantité / comprimé (mg)</b>	<b>Résultats</b>
Poudre de Spiruline BIO* ( <i>Arthrospira platensis</i> )	60% protéines 14% phycocyanines	500,0000	<i>CONFORME</i>

*\* Ingrédient issu de l'agriculture biologique*

**FABRICATION – 07/2020**

Critères	Spécifications	Résultats
Aspect	Lisses, non clivés	CONFORME
Format	Rond	CONFORME
Poids moyen	500 mg ± 5%	509 mg
Couleur	Vert foncé	CONFORME
Contrôle microbiologique	PE 8 5.1.8 Cat C	CONFORME

**CONDITIONNEMENT – 03/12/2020**
**PILULIERS**

Volume	400 mL	CONFORME
Couleur pilulier	Noir	CONFORME
Couleur cape à vis	Alu	CONFORME
Nombre de comprimés	500	CONFORME
Étiquette	ETIQ SPIRULINE BIO 500 V2	CONFORME
N° de lot	80676A	CONFORME
DDM	07/2023	CONFORME

REDACTEUR

VERIFICATEUR




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Étiquette	ETIQ SPIRULINE BIO 500 V2	CONFORME
N° de lot	80899A	CONFORME
DDM	07/2023	CONFORME
Accessoire	STICKER PROMO SPIRULINE 500 BIO	CONFORME

REDACTEUR

VERIFICATEUR


