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No. 1

Genaral information

				G-BASE Tamachi, 29-11 Shiba, Minato- ku, Tokyo 108-0014, Jap <mark>an</mark>				
Issued by	euglena	a Co., Ltd.	Responsible person	Quality Assurance Sect on P Processing Engineering Development Department				
			Classification	Food raw material				
Product name	Product name		Yaeyama chlorella powder					
Common name		chlorella(Scientific name), chlorella powder						
Use		Food material						
Manufacturer		Yaeyama Shokus	an Co., Ltd.					
Location		287-14 Shiraho	Ishigaki-city Ok	inawa 907-0242 Japan				
Location of manufacturing facility		287-14 Shiraho Ishigaki-city						
Contact company		euglena Co., L	.td.					
Person in charge		Department:	Quality Assurance Section, Production Engineering Development Department					
A J J .	r	Location:	G-BASE Tamachi, 5-29-11 Shiba, Minato-ku, Tokyo 108-0014, Japan					
Addi	ress	Phone:	+81-3-3453-4907 (Representative)					
		E-mail:	material quality@euglena.jp					
Distr	ibutor							
		Department						
Person i	n charge	Position:						
		Name:						
∆ طط	ress	Location:						
Auui		Phone:						
		E-mail:						
Delivered to			:					
Person in charge		Department:						
		Position:						
		Name:						
Addi	ress	Location:						
Auui	. 000	Phone:						
		E-mail:						

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Package information

		Product name	Yaeyama chlo	rella	арс	owder				
	Form of load		Corrugated c	artor	1					
	Inner	content	10 kg			(Manage	ment	range:	10. 05	kg)
	Date	of expiration	Date of expi	ratio	n:	6 years (72	month	าร)		
	and e	xample of indication	Example of i	ndica	atio	on: 6 years				
gl	(Reading instruction)		Numbers: Left period is from	10001 (Five digits, meaning: 1st lot in 10th period) Numbers: Left 2 digits, manufacturer's fiscal year at packing (10th period is from Oct. 2017 to Sep. 2018) Next 3 digits: Lot number (production order in the fiscal year)						
packaging	nner	Size	805	mm	×	475	mm	×	50	μm
cka		Material composition	Polyethylene							
		Weight of package	70	g		Sealing method	Foldi	ng		
of	,2	Size	790	mm	×	500	mm	×	75	μm
Form	nne	Material composition	Polyethylene							
요	Li	Weight of package	70	g		Sealing method	Deaer	ation,	Heat	seal
	=	Size	230	mm	Χ	230	mm	Х	340	mm
	Outer	Material composition	Corrugated c	artor	1					
		Weight of package	480	g		Sealing method	Craft	tape		
	Others (availability of desiccating agent/number etc.)		Desiccating Other deoxid	agent	: N	lot added	o+ od	40d		
			Product is enclos						innor 1	and outer
<u>. </u>	Remarks		1 TOURGE TS GIRCIOS	ou III	111161	i, allu illiletz 18	TOGALEG	DE LWCGII	HIIICI I	and Outer.

Label and Outer package







Back



Left



Right

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No. 3

Production flow chart

	ufacturing Process	Equipments	Descriptions
1	Pre culture Seed culture	Microscope	Propagate and cultivate seed strains of the Yaeyama Chlorella strain. Checking seed stock for quality control. Culturing good quality chlorella seed under the germfree condition.
2	Main culture	Open pond	Culturing enlarged chlorella seed stock in an open pond.
3	Harvest	Pump Centrifugal	Recovering chlorella culture. Centrifuging recoverd chlorella culture.
4	Cooling	Cooling tank	Cooling concentrated culture by centrifugation below 15 dgrees C.
5	Sterilization	Blanching unit	Over 130 degrees C and 1 second
6	Dry out	Spray dryer	Over 160 degrees C
7	Shifter	Shifter	50 mesh, 5 magnets (over 6,000 gauss)
8	Filling and Weighing	Scale	Filling with 10+0.05 kg Sampling for the sanitary test
9	Packing	Deaerator Sealer	Packaging after deaerated. Printing Lot No. and an expired date on the corrugated carton.
10	Storage		Storing at temperature without control in the warehouse until shippng.

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Product specification

Product name	Yaeyama chlorella powder

	Content	Specification	Analysis example	Method	Frequency	Analytical lab.
	Appearance and properties	No strange taste, odor, or foreign matter	No strange taste, odor, or foreign matter	Sensory inspection	Each lot	Yaeyama shokusan Co., Ltd. Quality cotrol dept
	Used part	Single-celled				
	Flavor	Flavor specific to Chlorella	Flavor specific to Chlorella	Sensory test		
	Foreign element	Not detected	Magnet	5 magnet bars over 6000 gauss		
ပ္ပ	Grain distribution	Below 50 mesh	50 mesh throgh	Seive in-process		
spec	Moisture	Below 7 [g/100g]	4.4 [g/100g]	Infrared water-content meter		
ty	Protein	56 or more[g/100g]	65.2 [g/100g]	combustion method		
<u> </u>	Ash	Below 10 [g/100g]	5.9 [g/100g]	Ashing method		
Qua	Sodium	Below 300 [mg/100g]	66.0 [mg/100g]	Atomic absoption spectrometry		
	Iron	10 or more[mg/100g]	27.3 [mg/100g]	o-phenanthroline absorption photometry	Each lot	Yaeyama shokusan Co., Ltd. Quality cotrol dept.
	Total chlorophyll	1.8 or more[g/100g]	3090 [mg/100g]	Alkaline pyridine extraction method		daarrey ooeror dope.
	Chlorella extract	10 or more[g/100g]	12.8 [g/100g]	Chlorella food quality standard		
	Existing pheophorbide	Below 60 mg	13.50 [mg/100g]	*99th Kanshoku		
pec	Total pheophorbide	Below 80 mg	44.90 [mg/100g]	∗99th Kanshoku		
S	Heavy metals(as Pb)	Below 20 ppm	Negative	Sodium sulfide method		
afe.	No. of bacteria	Below 3,000/g	Less than 3,000/g	PFACP method		
Se	Coli form bacteria	Negative	Negative	BGLB method		
	Remark	There is a possibili	ty to change t	he specification	on value in	the future.

	Storage condition & warranty period
Sealed	Warrenty period 6 years from production
Seareu	Storage condition Avoid high temperature, high humidity and direct sunlight
After opening	Warrenty period Use after opening as soon as practicable
Arter opening	Storage condition Avoid high temperature, high humidity and direct sunlight
Factors of quality	Decomposition of chlorophyll by sunlight may cause fadind of the powder,
deterioration	but it does not affect the quality.
Caution	
	put it does not arroot the quarity.

Note

Analizations conducted for each lot are only items described in "Quality spec." and "Safety spec.".

If you request other analization items, you need to pay for the fee of tests.

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Reference information

Product name	Yaeyama chlorella powder

Content	Ref	erence	Э	Analy	sis example	Method	Frequency	Analytical lab.
Bulk specific gravity	0.45 ~	0. 55	[g/cm3]	0.	45~0.55	Bulk density filliting method	Each lot	Yaeyama shokusan Co., Ltd. Quality cotrol dept
Lipid	7 ~	20	[g/100g]	12. 7	[g/100g]	Acid hydrolysis method		
Dietary fiber	5 ~	18	[g/100g]	14. 6	[g/100g]			
Available carbohydrate	0 ~	4. 5	[g/100g]	1.5	[g/100g]	Calculation based on food labeling		Japan Food Research Laboratories etc.
Energy	360 ~	440	[kcal/100g]	402. 0	[kcal/100g]		Once a year	
Arsenic(as As)	Not detected	l (below	2 ppm)	Not	detected	Chlorella food quality standard		
Vitamin B2	2 ~	9	[mg/100g]	5. 17	[mg/100g]	HPLC		
Note								

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Other additional information

Product name	Yaeyama chlorella powder

	Content	Detail	presence of cartificate	Paper name or remarks
	Product name	Yaeyama chlorella powder	NO	
	Raw material processed area	Ishigaki-city,Okinawa,Japan	YES	Certificate of origin
	origin Raw material	Chlorella	NO	
	Country origin material	Japan (Okinawa)	NO	
ation	Classification of food/food additive	Food	NO	
nforma	Blending ratio	Yaeyama chlorella powder 100%	NO	
tional i	Secondary raw material or carry-over	N othing	No	
Other additional information	Allergic substance(27items)	N othing	YES	Certificate of allergic substance
Oth	Genetic recombination(GMO)	Not coverd	YES	Certificate of GMO
	Bovine etc. source material(BSE related)	N othing	YES	Certificate of BSE
	Pesticide remnant	Nothing	YES	ANALYSIS CERTICATE
	Proof of conformity with direct packaging material	Conformity	YES	Examination transcript
	Other certificate	HALAL, Kosher	YES	HALAL CERTIFICATEKOSHER CERTIFICATE

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	Revision record					
Edition number	Date Auther	Description				
First	April 1, 2017 Yoshino	Changed Yaeyama syokusan company fom to euglena company's(no change in specification values etc.)				
Second	April 5, 2018 Matsui	Changed address, label and outer package.				
Third	May 7,2018 Kanayama	Changed date of expiration to 6 years from 3 years.				
Fourth	November 14, 2018 Matsuzaki	Changed responsible person in charge and added page of No. 6.				
Fifth	April 19, 2019 Matsuzaki	Change in Quality assurance manager.				
Sixth	January 14, 2020 tatara	No.1_Inquiry destination name, No.4 quality standard significant figures changed				
Seventh	shiotsuki	Added No.1_contact person name and No.4 quality standard test method				
Eighth	February 19, 2021 shiotsuki	No.1_Responsible person's name, Contact person's name, No.3 Process control added, No.4 Quality standard value changed				
Ninth	March 4, 2021 shiotsuki	No.3_Process control partly modified, No.4_Quality standard value and analysis example partly modified				
tenth	July 6, 2023 Gotoh	No.2_Correction of inner package size.				
eleventh	February 21, 2024 Gotoh	No.5_Corrected the analysis section on the Reference Information. No.2_Exterior photo update.				