Previous>October 1, 2009 Updated October 29, 2012 (Change of best-before date of Shimane grown product) Updated July 1, 2013 (Addition of inner/outer package by producing area; amendment of standards thereof) Updated August 12, 2013 (Amendment of standards of acteoside) Updated September 13, 2013 (Change of best-before date of Shimane grown product) (Addition of Ingredients of Kumamoto product only) Updated on October 1, 2013 (Food allergy labeling) Updated April 22, 2016 (Listing 2 producing areas) Updated July 28, 2016 (Change in Kagoshima grown product labeling; unified with organic sesame young leaf) Updated February 8, 2019 (Amendment of best-before date of Kagoshima grown product to indicate in 2-digit year instead of last 2-digit) Updated Sep. 12, 2023 (Addition of domestic product to product name, addition of BGLB method; change of process, lot indication; underlined to show revised package material quality indication method)

Raw Ingredient/Product Standards

Wadaman Science Co., Ltd. 546 Nijoden-cho Karasuma Oike-agaru, Nakagyo-ku, Kyoto 604-0845 Japan Tel (075)222-7318 FAX (075)222-0318 http://www.wadaman-s.com/

Product name Sesame Young Leaf Powder (Domestic product) Product features Sesame Young Leaf Powder is the fountain of the power of sesame. It contains plenty of folic acid and polyphenol. Acteoside is also contained. Sesame Young Leaf Powder, Sesame Leaf Powder Label name examples Standard daily intake 2~6g. No special laws apply as this product is food.

■The following two types of raw ingredients have been used since 2016:

- Kagoshima grown
- (2) Shimane grown (organic sesame young leaf powder)
- 1. Main

in raw ingredient	Ingredient name	Blend ratio	Standards	Additives
	Sesame leaf ground	100%	Company's	None
	product		standards	

2. Quality standards * shows reference values outside the standards.

Items	Standards description	Analysis/Test method	
Properties	No abnormal taste or smell; having distinct taste	Comparing with standard products	
Moisture content	No more than 10% (provisional value)	Normal pressure heat drying method	
Aerobic plate count	No more than 3000 count/g	Standard plate agar medium method	
Coliform group	Negative	BGLB medium method or	
		desoxychilate agar medium method	
Arsenicum (As ₂ O ₃)	No more than 2ppm	Atomic absorption spectorophotometry	
Heavy metal (Pb)	No more than 20ppm	Sulphuretted sodium colorimetric method	
Foreign substance	Not allowed	Metal detector, ferrous magnet, visual	
_		inspection	
Total pheophorbide*	No more than 80mg%		
Existing pheophorbide*	No more than 80mg%		
Acteoside	Confirmation of contamination	High performance liquid chromatograph	

The standard values of pheophorbide are set based on the values of products underwent an accelerated test. Analysis by lot is not conducted. The standards of pheophorbide is applied to Shimane grown only.

* Acteoside is measured in each production year.

Specific (allergic) raw material information Use of specific (allergic) raw materials (Y / \emptyset) 3.

4. Manufacturing process

Raw ingredient washing \rightarrow Cutting \rightarrow Blanching \rightarrow Cooling \rightarrow Dehydrating \rightarrow Heat drying \rightarrow Wind sorting \rightarrow Metal detector \rightarrow <u>Smashing</u> \rightarrow Pasteurization \rightarrow Fine grinding \rightarrow Screening \rightarrow Magnetic sorting \rightarrow Measurement \rightarrow Metal detection \rightarrow Packaging \rightarrow Shipping *200 mesh

5. Packaging form 10kg (Inside: Double-layer plastic bag; Outside: Cardboard)

6. Lot indication

dication Kagoshima grown product: The last 2-digit year plus month and date → e.g. 200304 (Manufactured on March 4, 2020) Shimane grown product: The last 2-digit year plus month and date → e.g. 100512 (Manufactured on May 12, 2010)

7. Label on cardboard box and outer packaging

(1) Kagoshima grown product

Previous label>Version revised on February 2019 ➡ New label is used from March production (Lot is indicated by using 2digit of the year)

*March 4 is an example manufacturing date



Product name	Sesame Young Leaf Powder (Kyushu grown)	
Lot No.	310208	
Net content	10 kg	
Best before	210807	
Storage	Please avoid direct sunlight, heat, and	
conditions	humidity and keep in a cool dark place.	
Seller	Wadaman Science Co., Ltd. NT Miyako Bldg. 902, 546 Karasuma- Oike agaru, Nijoden-cho, Nakagyo-ku, Kyoto, 604-0845 Japan Tel: 075-222-7318	
Manufacturer	Yamaguchi Ube Kotobuki Factory, Seishin Enterprise Co., Ltd. 700-3 Aza Kabutoishi, Yamanaka, Ube- shi, Yamaguchi, Japan	



D 1			
Product name	Sesame Young Leaf Powder		
	(Domestic product)		
General name	Sesame young leaf processed food		
	product		
Raw ingredient	Sesame young leaf (domestic)		
Lot No.	220909		
Net content	10 kg		
Best before	250308		
Storage	Please avoid direct sunlight, heat, and		
conditions	humidity and keep in a cool dark		
	place.		
Seller	Wadaman Science Co., Ltd.		
	NT Miyako Bldg. 902, 546		
	Karasuma-Oike agaru, Nijoden-cho,		
	Nakagyo-ku, Kyoto, 604-0845 Japan		
	Tel: 075-222-7318		
Manufacturer	Yamaguchi Ube Kotobuki Factory,		
	Seishin Enterprise Co., Ltd.		
	700-3 Aza Kabutoishi, Yamanaka,		
Ube-shi, Yamaguchi, Japan			

<Lot label example of organic sesame young leaf powder after April 2016> ■Outer package



品名	有機胡麻若葉殺菌粉砕品
Lot No.	160414 -
内容量	10kg
賞味期限	2021.10.13
保存方法	直射日光、高濃多湿のところを超けて冷峻所に保存して下か
贩売者	株式会社 わだまんサイエンス 〒604-0845京都市中京区県丸御池上る 二条殿町546 NT都ビル902 霞075-222-721)
製造所	(株)セイシン企業 山口宇部寿工場 山口県宇部市山中宇甲石700~3

Lot: WDE-0031014 Product name: Sesame Young Leaf Net content: 10 kg Seller: XX Co., Ltd.

Product name	Organic Sesame Young Leaf Pasteurized and Ground Product	
Lot No.	160414	
Net content	10 kg	
Best before	2021.10.13	
Storage conditions	Please avoid direct sunlight, heat, and humidity and keep in a cool dark place.	
Seller	Wadaman Science Co., Ltd. NT Miyako Bldg. 902, 546 Karasuma-Oike agaru, Nijoden- cho, Nakagyo-ku, Kyoto, 604- 0845 Japan Tel: 075-222-7318	
Manufacturer	Yamaguchi Ube Kotobuki Factory, Seishin Enterprise Co., Ltd. 700-3 Aza Kabutoishi, Yamanaka, Ube-shi, Yamaguchi, Iapan	

Specifications	Inner and outer package
Label name	 <u>Sesame Young Leaf Powder (Domestic product)</u> Organic Sesame Young Leaf Pasteurized and Ground Product
Inner plastic bag size and seal Outer plastic bag size and seal	Inner polyethylene bag size: 650(W)×800(H)×0.1(t) (mm), <u>volume _0.09kg</u> Sealing method: Heat seal Outer polyethylene bag size: 900(W)×1000(H)× <u>0.045(t) (mm</u>), volume 0.07kg (Sealing method: Folding inside)
<u>Cardboard case size</u>	480(w)×380(D)×260(H)mm Sealing method: Sealed with <u>kraft tape</u>

- 8. Storage conditions Please avoid direct sunlight, heat, and humidity and keep in a cool dark place.
- 9. Best-before period Kagoshima grown: 2.5 years from the date of manufacture; Shimane grown (Organic Sesame Young Leaf Pasteurized and Ground Product): 5.5 years

10. Nutrition label (per 100g)

Nutrition	Analyzed value of Shimane	Analyzed value of Kyushu
	grown (e.g.)	grown (e.g.)
Moisture	8.0g	2.5g
Protein	21.5g	13.5g
Lipid	4.2g	3.6g
Ash	15.7g	9.6g
Carbohydrates	50.6g	70.8g
Energy	326kcal/100g	370kcal/100g
Sodium	15.6mg/100g	16.5mg/100g

11. Analysis of components of sesame young leaf (per 100g except superoxide dismutase values)

Analysis test item	Shimane grown Lot 061116	Kyushu grown Lot woc0000118~ woc0018018
Moisture	8.0g	2.5g
Iron	16.6mg	6.72mg
Folic acid	760µg	200µg
Calcium	1,360mg	1,690mg
Potassium	4,900mg	2,580mg
Magnesium	477mg	368mg
Vitamin A (Retinol content)	187µg	473µg
Alpha-Carotene	40µg	Not detected
Beta-Carotene	2,220µg	5,680µg
Riboflavin (Vitamin B2)	1.4mg	0.72mg
Vitamin E(Alpha-Tocopherol)	4.2mg	9.7mg
Lutein	11.3mg	13.6mg
Superoxide Dismutase (SOD)	1,500 units/g	4,100 units/g
Polyphenol	1,300mg	1,800mg

Test laboratory: Japan Food Research Laboratories (Polyphenol Analysis: Japan Food Hygiene Association) *The value of Iron of Shimane grown product has been changed from the initial value 203 mg to the value stated above after the second analysis (revised

January 17, 2008). * The above data is reference values and not the standard values.

12. Safety test

- (1) Acute oral toxicity testing with male mice
- 1. Death: No death case was found in any mice on the test during the test period.
- 2. General conditions: No abnormality was found in any mice during the test period.
- 3. Consideration: Acute oral toxicity examination using male mice as specimen was conducted. The specimen was administered by the dosage of 2,000 mg/kg, neither abnormality nor the death case was admitted during the term of the observation. Therefore, it was considered that the LD50 value by the single time oral administering in the specimen mice was 2,000 mg/kg or more in the male mice.
- (2) Mutagenicity test (conducted in May 2013)

The possibility of mutation induction of sesame young leaf powder was checked using Salmonella typhimurium TA100, TA1535, TA98, and TA1537 as well as coliform WP2*uvrA*. As a result, no increase in the number of revertant colonies which is more than double the number compared to the vehicle control was found for each strain, regardless of the presence or absence of metabolic activation.

13. Other tests

Agricultural Chemicals: There were no agricultural chemicals detected in the specimen.Total Pheophorbide: 10mg%Existing Pheophorbide: 8mg%Chlorophyllase: 2mg%Total Chlorophyll: Not lower than 120mg/100g

14. Allergy labeling

Instruction from the Consumer Affairs Agency dated September 20, 2013 encourages labeling of "Sesame" as allergen. Please use "Sesame Young Leaf", "Sesame Young Leaf Powder", etc. for labeling.