Origin: Western Australia, Australia

Product Description:

Australian Sweet Lupin (ASL) Flake is the Lupinus Angustifolius species, a very different species to bitter (Alkaloids) tasting South American and some European lupin species. Through classical breeding over 60 years, the ASL is a truly naturally sweet lupin, without the sugar.

Our lupin Flakes are created by gentle removal of the fibrous husk from the endosperm to produce the lupin Splits, followed by a series of steps to gradually reduce the size to a lupin Grit. We then use huge rollers to flatten the Grit - so this is a dry, high value, natural protein. Our process is purely mechanical and operates at a temperature of less than 36°C, preserving the full value of the protein level availability – there is no denatured protein, so you get the full value as if you picked the bean straight off the plant.

Because of our focus on food safety our beans are all 'Single-Origin', providing un-equalled vertical integration, traceability, and quality systems from pristine Australian farming operations – perfect for every global family table.

Ingredients

Pure, natural, Australian Sweet Lupin and Australian Sweet Air - nothing else.

GMO status GMO free.

Particle Size

Approx 120 -150um thickness and 2-3mm wide. Perfect for use as a blended visual plant-based protein added to any meal, or hydrates in approx 3 minutes.

Storage and Shelf Life

24 months – if stored cool, dark and dry.

Available sizes

- 400gm x 6 Shelf ready retail pack with tear-off lid
- 5kg x 3 15kg Food service pack
- 500kg bulk bag/tote spout top/spout bottom.
- 1,000kg bulk bag/tote spout top/spout bottom

HS Code 1106.10.00

Organoleptic Characteristics

- Flavour neutral with no off flavour sometimes found with other legumes
- Aroma Sweet, earthy, smells like the taste of wheat, dry with no off smell
- Texture flaky, not gritty, smooth, nutty mouth feel.

Certifications

















Physical

A soft golden colour, small flakes with non-uniform shapes, easily sprinkled, blends easily with other dry materials. Usage like a carbohydrate, but isn't a carbohydrate.

Microbial Characteristics

- Clostridium Perfringens (CFU/g) <10
- Coagulase Positive Staphylococci (CFU/g) <100
- Ecoli (CFU/g) <10
- Coliforms (CFU/g) <10
- Enterobacteriacea (CFU/g) <10
- Salmonella sp /25g not detected
- Total Plate Count (CFU/g) 10⁴ (usually shown to be less than 10²)
- Yeast (CFU/g) <10³ (usually shown to be less than 10²)
- Mould (CFU/g) <10³ (usually shown to be less than 10²)



Protein digestibility corrected amino acid score (PDCAAS): 0.53 **

Protein Digestibility Estimated: 90 [1,2]

Allergen Data

Like many other high protein foods, lupin is an allergen in Australia and some other countries. Our facility is Gluten-free and we test to a very sensitive level to ensure this is maintained. No other allergens are used in our facility.

Nutritional Facts

Range	
9- 10	
0.378	
1350kJ	
38 - 41	
6 - 7	
20	
45	
35	
0	
3 - 4	
2.5 - 4	
36 - 39	
110	
30	
810	
3	
160	
Food Standards Australia & New Zealand range	
<0.02	
<5	

Amino acid profile for lupin protein	(g/100g)
Alanine	1.40
Arginine	4.80
Aspartic acid	4.50
Cysteine	0.70
Glutamic acid	9.00
Glycine	1.60
Histidine	1.00
Isoleucine	1.60
Leucine	2.90
Lysine	1.50
Methionine	0.30
Phenylalanine	1.50
Proline	2.30
Serine	2.10
Threonine	1.80
Tryptophan	0.41
Tyrosine	1.60
Valine	1.50
Cyct + Meth	1.00
Tyr + Phen	3.10
Lutein & Zeaxanthin * * micrograms per 100g	4,400

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*Independent NATA accredited laboratories are utilised at all times for compliance with the Foods Standards Australia & New Zealand Codes in particular 1.4.1 Clause 3 and Standard 1.4.1 Clause 5

[1] Villarino, C., Jayasena, V., Coorey, R., Chakrabarti-Bell, S. & Johnson, S. 2015. The effects of lupin (Lupinus angustifolius) addition to wheat bread on its nutritional, phytochemical and bioactive composition and protein quality. Food Res. Int. vol. 76, pp. 58-65. [2] Chew, P. G. Casey, A & Johnson, S. K. 2003, Protein quality and physico-functionality of Australian sweet lupin (Lupinus angustifolius cv. Gungurru) protein concentrates prepared by isoelectric precipitation or ultrafiltration. Food Chem. vol. 83, pp. 575-583. ** Determined by multiplying the protein digestibility (%) with the limiting amino acid score.