

HONEY CORPORATION OF AUSTRALIA

399 Archerfield Road, Richlands Queensland Australia 4077

Honey Specification Sheet

➔ Description

Honey originates from the nectar and saccharine secretions of plants that are gathered, modified, stored and dehydrated by the honey bee (*Apis mellifera*). Honey consists essentially of different natural sugars, with the predominant sugars being fructose and glucose. Honey shall be pure and free from additives, preservatives, noxious substances and admixtures of any kind including sucrose and invert sugars.

➔ Appearance

Viscous liquid, clear to slightly turbid. Free from sediment and crystallisation.

➔ Allergen Declaration

Honey contains 0.3% protein (primarily resulting from pollen) of this 1% is allergenic protein. Food Standards Australia and New Zealand state that a declaration of Honey as an ingredient is sufficient acknowledgement of this allergen.

➔ Processing

Honey packed by the Honey Corporation of Australia is processed in a HACCP Certified facility to BRC (GFSI) Quality Management Systems, and is subject to filtration, and blending prior to filling. The resulting honey is clean and practically free from foreign matter including comb wax, insect fragments and any signs of spoilage such as fermentation and mould growth. The honey's essential composition is not changed or its quality impaired by heating or processing. Specifically produced creamed honey products will have a smooth creamed appearance resulting from controlled processing techniques used to give an aerated consistently crystallised product.

➔ Product Applications

Commercial applications include:

Flavour, colour, clarification, curing agent, natural sweetener, humectant, provides volume, flavor enhancement.

Product applications include:

Breads, small goods, prepared marinades, nougat, boiled sweets, muesli cereal, cakes/puddings, biscuits, dairy drinks, coated nuts, popcorn, pretzels, infant formula, salad dressings, yoghurt, caramel's, ice cream, butter based spreads, self-saucing puddings, pet food, hams, gourmet sauces, pharmaceutical products, soft centered chocolates, muesli bars, breakfast cereals, cake and icing mixtures, dry mixes, soy based drinks, rice dish sauce, health drinks, sweet buns, frozen desserts.

➔ Storage and Shelf Life

Honey should be stored at ambient warehouse conditions (typically 22°C), away from direct sunlight. Honey does not expire, however FIFO warehouse operations are encouraged.

➔ Country of Origin

Brands packed on behalf of the Honey Corporation of Australia include Allowrie, Smiths (both packed with Chinese, Mexican, Brazilian & Australian), Barnes Naturals (Australian), Wescobee (Australian), Barnes (Australian) and Chandlers (Australian). Specific percentage breakdown of country of origins can be provided on request.

➔ Organoleptic Characteristics

Odour	Pleasant, characteristic aroma. Free from foreign odours.
Taste	Pleasant, characteristic, sweet flavour, sufficiently strong but not distinctive

Flavour differs according to floral variety and may vary seasonally.

➔ Colour (As per Pfund Scales)

White	0-34mm
Extra Light Amber (or Golden)	35-50mm
Light Amber (or Amber)	51-85mm
Medium Amber (or Dark)	86-100mm

➔ Characteristics

Specific Gravity	1.423 (17% moist 20°C)
Viscosity	70-175 Poise (17% moist 25°C)
Specific Heat	2.26 kJ/(kg.K) (17% moist 20°C)
Thermal Conductivity	0.536 W/(m.K) (17% moist 21°C)
Freezing Point (15% soln.)	1.42°C – 1.53°C
Water Activity (Aw)	0.5 – 0.6

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Microbiological Requirements

Sulphite Reducing Spores	10 cfu/g (Max.)
Total Aerobic Mesophilic Spores	1,000 cfu.g (Max)
Standard Plate Count	<10,000 cfu/g
Yeast & Moulds	<1,000 cfu/g
E.coli	Not Detected/25g
Salmonella	Not Detected

Nutritional Information (Typical analysis per 100g)

Energy	1416kJ
Protein	0.3g
Fat – Total Saturated	0g 0g
Carbohydrate	83.1g
Sugars *	82.5g
Sodium	15mg

*Sugars naturally occurring in honey

Composition

Moisture	15-19% wwb
Fructose	36-50%
Glucose	28-36%
Sucrose	0.8-5.0%
Nitrogen	0.05-0.38%
Ash	0.04-0.2%
pH	3.3-5.6
Acid	0.57% (primarily gluconic)
Free Acid	9-40m-equiv./kg
Water Insoluble Solids	<0.1%
Enzymes	Invertase, diastase (amylase), catalase, glucose oxidase, acid phosphatase
Vitamins	Traces of the following: B6, C, folate, pantothenic acid, niacin, riboflavin, thiamin
Minerals	Traces of the following: potassium, calcium, magnesium, iron chloride, selenium, sodium, silicon, silica, manganese, sulphur, phosphorus, aluminum, zinc and copper

Residue Standards

Hydroxymethylfurfural (HMF)	<40 ppm (naturally occurring)
Pesticides	Not detected (<10 ppb)
Chloramphenicol	Not Detected (<0.1 ppb)
Nitrofurans	Not Detected (<0.3 ppb)
Tetracyclines (excluding Oxytetracycline)	Not Detected (<10 ppb)
Sulphonamides	Not Detected (<10 ppb)
Streptomycin	Not Detected (<10 ppb)
Tylosin	Not Detected (<10 ppb)
Erythromycin	Not Detected (<10 ppb)
Oxytetracycline*	Not Detected (<10 ppb) Australian & Canadian Market have an MRL of 300 ppb for oxytetracycline
Benzaldehyde	<100 ppb (naturally occurring)
Amitraz	Not Detected (<0.01 ppm)
Adulteration with C4 or Foreign Sugars	Not Present

* Honey for use in medicinal products (e.g. Jarrah, Manuka, Jelly Bush) or organic products shall be free from any detectable chemical or antibiotic residue including Oxytetracycline

** Honey supplied must comply with Australian MRL food standards