



Product Certificate

Jørgen Kruise A/S hereby declare the following details regarding the mentioned product

Item number

165000, 165001, 165002, 165005, 165006, 165007, 165010.

Product name

Manuka gel & Manuka dressing, sterile. Different types. Please see below.



Product type

Manuka honey impregnated dressing.

The honey in the dressing is derived from the nectar of the Manuka tree (*Leptospermum scoparium*), which has its own unique chemical properties. Manuka honey contains glucose oxidase imparted by the bees during its hydrogen peroxide when in the presence of wound exudates and thus supports cellular proliferation and metabolism through an antioxidant effect. The high sugar and low pH content creates a high osmotic potential which gives honey excellent debridement and anti-inflammatory properties.

Kruise Manuka honey wound dressings have a Unique Manuka Factor (UMF) of 15. UMF 10 is minimum requirements for wound dressings.

The dressings are in adherent and non-adherent types and also a gel is available. Please see below.

Material

100% active *Leptospermum* honey from New Zealand. Please see specification below.
Acetate gauze for ND type and pad of absorbent polymers for AD type.

Manuka honey specification

Parameter	Composition	Test Method	Unit	Min	Max
Organoleptical	Colour	Visual*	-	Light Amber	Amber
	Colour	Pfund scale	mm	35	114
Physical	Foreign Matter	Filtration	Micron	-	<100
	Crystallisation	Filtration	Micron	-	<200
	Specific Gravity			>1.40	-
Chemical	pH			3.0	5.5
	Moister (water by refractive Index)	AOAC Method 969.38	%	-	19
	Solid content	Refractometer	%	81	-
	Ash			0.2	1.02
	Glucose			22.0	40.0
	Fructose		%	30	45
	Sucrose		%	0.25	7.6
	Total Sugars		%	55	78
	Hydroxymethylfurfural (HMF) (5-hydroxymethyl-2 furalde-hyde)		mg/Kg		46
Bacterial	Activity Non-Peroxide	Bioassay	% phenol	12	24
	Aerobic Plate Count		Cfu/g		<250
	Coagulase + ve Staphylococci	APHA(4) 39.53, 4 & 6	Cfu/g		<50
Contaminants	Heavy metals (e.g. lead)		ppm		<20
	Fluvalinate		mg/Kg		<0.005
	Flumethrin		mg/Kg		<0.005

Colour

Yellowish.

Storage condition

Dry cool place.

Shelf-life

3 years.

Size & type

Item number	Item name	Size [cm]	Type	Amount
165000	Manuka ND	5 x 5	Non-adherent	10 pcs.
165001	Manuka ND	10 x 12,5	Non-adherent	10 pcs.
165002	Manuka ND	10 x 100	Non-adherent	1 roll
165005	Manuka AD	5 x 5	Absorbent	10 pcs.
165006	Manuka AD	10 x 12,5	Absorbent	10 pcs.
165007	Manuka AD	10 x 100	Absorbent	1 roll
165010	Manuka G	15 gram	Gel	10 pcs.

Origin

EU. Honey: New Zealand

Last revised 04-sep-2017 Version 2	Signed Inge Merete Jensen	Function QA Manager
---	---	-----------------------------------