

“Antibacterial activity of MINOAN BEE Honey samples

compared to MANUKA Honey MGO 1122”

Product Details

MINOAN BEE (Heraklion, Crete) legally represented by Mrs Maria Stefanaki

Apiary Locations: Maridaki/Asterousia Mountains, Crete (Sample 1); Rodopos/Chania, Crete (Sample 2);

Selakano/Dikti Mountains, Crete (sample 3)

Special Characteristics: Limited Production, International Awards (Great Taste Awards)

Manuka Honey: Famous for its antibacterial properties - Produced in New Zealand

ANTIBACTERIAL ACTIVITY

Three honey samples harvested between August-October 2021 have been assessed regarding their antibacterial activity against the following bacterial species:

1. *Staphylococcus aureus*
2. *Pseudomonas aeruginosa*
3. *Acinetobacter baumannii*
4. *Klebsiella pneumonia*
5. *Citrobacter freundii*
6. *Salmonella enterica serovar* Typhimurium
7. *Streptococcus mutans*.

Determination of Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) has been performed according to Tsavea & Mossialos (2019) Journal of Apicultural Research, 58:5, 756-763.

All samples regardless of their botanic origin demonstrated bacteriostatic and bactericidal activity ranged from 6.25% (v/v) to 25% (v/v) against all tested microorganisms.

Antibacterial activity was equal to that exerted by Manuka MGO 1122, against *Pseudomonas aeruginosa* [12.5% (V/V) in all 3 samples], *Citrobacter freundii* (6.25% (V/V) Sample 1 only); *Salmonella enterica serovar* Typhimurium [6.25% (V/V) Sample 1 only]

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