

# AKÖMA™

## FROM THE HEART

### ANTIMICROBIAL ACTIVITY MANUKA ACTIVE CONCENTRATE

#### DESCRIPTION

**Description:** Manuka Active Concentrate

**INCI Name:** Leptospermum Scoparium

**Definition:** Polar fraction of Leptospermum Scoparium oil. Natural Manuka triketone fraction.

Tairawhiti Manuka Active Concentrate has a total triketone concentration of >96%.

#### ANTIMICROBIAL ACTIVITY:

Tairawhiti Manuka Active Concentrate has been independently tested against a wide range of organisms and has been found to be active against all of those tested.

The minimum inhibitory concentration (MIC) (i.e the lowest concentration which will inhibit the growth of a specified organism) was determined. A typical list of some of these follows:

ORGANISM	MIC (%w/v) Manuka Oil	MIC (%w/v) Manuka Active Concentrate
<b>Gram Positive Bacteria</b>		
Staphylococcus Aureas	0.078-0.125	0.010-0.080
Staphylococcus Aureas MRSA	0.020-0.060	0.0035-0.010
Staphylococcus epidermis	0.050-0.078	0.010
Staphylococcus capitis	0.050	0.010
Enterococcus faecium	0.050	0.010
Bacillus subtilis	0.156	0.020
Streptococcus pyrogenes	0.125	0.0625
Cornebacterium diptheriae	0.050	0.020
Cornebacterium minutissimus	0.050	0.020
<b>Manuka Active Concentrate is between 2 and 5 times stronger than Manuka Oil against gram positive bacteria</b>		

<b>Gram Negative Bacteria</b>		
Escherichia coli	>2.000	0.320- >2.000
Pseudomonas aeruginosa	0.850- >2.000	0.320- >2.000
Proteus vulgaris	0.500 ->2.000	0.32
Manuka Active Concentrate is between 1 and 8 times stronger than Manuka Oil gram negative bacteria.		

<b>Organism</b>	<b>MIC (% w/v)</b>	<b>MIC (% w/v)</b>
	<b>Manuka Oil</b>	<b>Manuka Active Concentrate</b>
<b>Yeasts</b>		
Candida Albicans	0.625- >2.000	0.040 - <1.000
Manuka Active Concentrate is between 2 and 15 times stronger than Manuka Oil against Candida albicans		

<b>Fungi</b>		
Aspergillus niger	>2.000	>2.000
Penicillium notatum	>2.000	>2.000
Trichophyton rubrum	<0.039-0.30	0.320
Trichophyton mentagrophytes	0.050-0.080	0.0008-0.016
Manuka Active Concentrate is between 1 and 10 times stronger than Manuka Oil against dermatophyte fungi		

Revised: 11.05.2016