

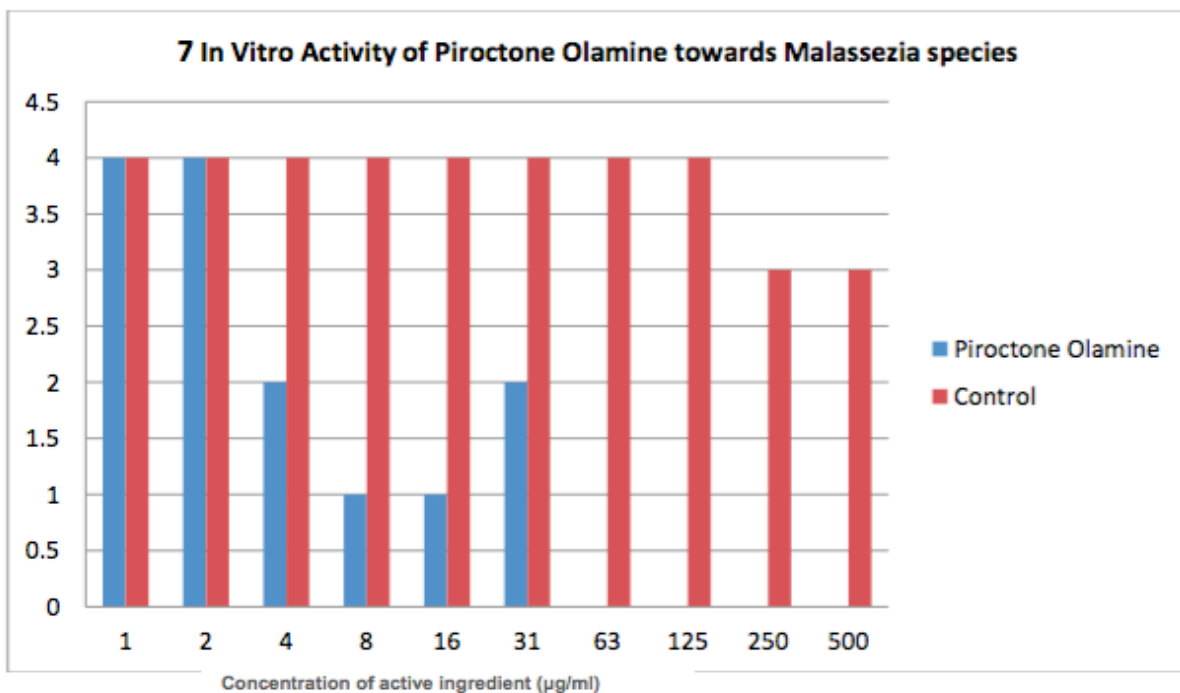
# AKÖMA™

## FROM THE HEART

### ACTION OF PIROCTONE OLAMINE – ANTI-MICROBIAL

5 Antibacterial spectrum of action of Piroctone Olamine (pH 7)											
	Bacteria	No of strains investigated	Minimum inhibitory concentration (µg/ml)								
			4	8	16	31	63	135	250	500	1000
Gram Positive	Staph. aureus					■	■				
	Micrococcus luteus	1					■				
	Streptoc. pyogenes	2					■				
	Bac. subtilis	1					■				
Gram Negative	Escherichia coli	9					■	■			
	Salmonella var. species	6						■	■		
	Proteus var. species	9						■	■	■	
	Klebsiella var. species	3						■	■	■	
	Enterobacter var. species	4							■	■	
	Shigella flexneri	1					■				
	Pseudomonas aeruginosa	8					■	■	■	■	
	Haemophilus influenzae	1					■				
	Corynebact. var. species	2					■				
	Past. multocida	1				■					

6 Antifungal spectrum of action of Piroctone Olamine (pH 6.5)												
Species of Fungus	No. of strains investigated	Minimum inhibitory concentration (µg/ml)										
		0.1	0.2	0.3	0.5	1	2	4	8	16	31	64
Trichophyton rubrum	5				■	■	■					
Trichophyton mentagrophytes	4					■	■					
Other Trichophyton-species	1						■					
Microsporium canis	1						■					
Other Microsporium-species	2				■	■						
Epidermophyton floccosum	1						■					
Candida albicans	5					■	■					
Candida tropicalis	3					■	■					
Other yeast like fungi	3					■	■					
Aspergillus niger	1						■					
Aspergillus fumigatus	2					■	■	■				
Other moulds	4					■	■					



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### Mechanism

According to Prof. Bonadeo (1975) and Prof. Lüpke (1979) the increased formation of dandruff can be explained by the mechanism shown in fig. 8.10, 12

The action of Piroctone Olamine within this mechanism is attributed both to its antimicrobial and its anti-oxidative action.11

As outlined in fig. 7 Piroctone Olamine is also highly effective against malassezia species (formerly called Pityrospirium ovale or orbiculare), which are considered to be the main causes dandruff