

**Title:** Virkon S: bacteriology in the presence of varying hardness of water

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**Origin:** Internal Laboratory trials

**Circulation:** Unrestricted

Method:

Antec Comparative Bactericidal Suspension test

Test conditions:

3% yeast soil

Synthetic Hard water: 300ppm, 500ppm, 700ppm & 1000ppm (as CaCO<sub>3</sub>)

Room temperature

Test organism: *Ps. aeruginosa* NCIMB 10421

Virkon S production batch (batch number: 9078)

Results:

Water hardness	Dilution	5 min contact time	15 min contact time	30 min contact time
300ppm	1:100	-	-	-
	1:150	-	-	-
	1:200	tntc	+	+
500ppm	1:100	-	-	-
	1:150	-	-	-
	1:200	tntc	+	+
700ppm	1:100	-	-	-
	1:150	-	-	-
	1:200	tntc	+	+
1000ppm	1:100	-	-	-
	1:150	-	-	-
	1:200	+	+	-

Key:                    +        =        growth  
                              -        =        < 10 cfu  
                              tntc    =        growth too numerous to count

Comments:

Virkon S bactericidal performance is not detrimentally affected by varying levels of water hardness.

The test was also performed with a high soil loading (3% yeast) in each instance, to represent typical field conditions..

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