



Field sample cooling tower water using different biocides

Sample supplied by Customer on 5/4/05 pH
8.2 adjusted to 8.7 with Na₂CO₃

Test Matrix	Time (minutes)									
	0		10		30		60		17hrs	
	ppm (Cl ₂)	Log ₁₀ Initial (Cfuml)	ppm (Cl ₂)	Log ₁₀ Reduction (Cfuml)	ppm (Cl ₂)	Log ₁₀ Reduction (Cfuml)	ppm (Cl ₂)	Log ₁₀ Reduction (Cfuml)	ppm (Cl ₂)	Log ₁₀ Reduction (Cfuml)
Stabrom 909 (6.9%) Albemarle	0.86	7.18	0.79	0.07	0.72	0.14	0.59	0.92	0.14	NM
BromMax (10.2%) Enviro Tech	0.92	7.18	0.81	0.19	0.74	0.33	0.68	0.92	0.20	NM

Hardness - 100 ppm as CaCO₃ Conductivity - 427 uS/cm NM = not measured

- (1) Samples were spiked with different amounts of product to target a 1.0 ppm residual (as active Cl₂).
- (2) Residual analysis was performed using a HACH colorimeter with DPD 'total' indicator pillow packs.
- (3) Samples were neutralized using metabisulfite and bacteria plates were taken at specified times.
- (4) Controls were also treated with the neutralizer to verify no interference.
- (5) Challenge organism was Pseudomonas aeruginosa (slime former).

Conclusions:

There is an insignificant difference in long-term efficacy or residual (product) persistency in this test.