



## Arm & Hammer Animal and Food Production

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### In vitro *Vibrio* inhibition trial

Trial location: AQUACULTURE PATHOLOGY LABORATORY, University of Arizona

Objective: Test inhibition of various field strains of *Vibrio* isolated from shrimp using CELMANAX.

Materials and Methods: Various concentrations of test products were tested for *in vitro* inhibition of field strains of *Vibrio* isolated from shrimp in Tryptic soy agar medium.

Results: Three of four isolates were inhibited at the 1000ppm level and all four were inhibited at the 2000ppm level. The results are summarized in the table below.

Organism	MIC#	EMS status	Country	CELMANAX liquid in ppm			
				0	100	1000	2000
<i>V. parahaemolyticus</i>	41	Neg	Vietnam	G	G	G	NG
<i>V. parahaemolyticus</i>	42	POS	Vietnam	G	G	NG	NG
<i>V. parahaemolyticus</i>	44	POS	Mexico	G	G	NG	NG
<i>V. alginolyticus</i>	49	Neg	Ecuador	G	G	NG	NG
<i>V. vulnificus</i>	51	Neg	Mexico	G	G	NG	NG

G= Growth

NG=No growth at 48hr.

Since there was growth at the 1000ppm for three out of the four strains, in a tank situation the 2000 and 5000ppm or even higher concentration levels should be tested.