



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
May 16, 2007

Mr. Ranjit Clarke  
Calscience Environmental  
7440 Lincoln Way  
Garden Grove, CA 92841-1432

Dear Mr. Clark:


We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, EPA-821-R-02-012*. Results were as follows:

CLIENT:	Calscience Environmental
SAMPLE I.D.:	OMC
DATE RECEIVED:	2 May - 07
ABC LAB. NO.:	CSE0507.075

**96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY**

LC50	=	95 % Survival in 100 % Sample
TU(a)	=	0.41

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

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# **Larval Fish Growth and Survival Test-96 Hr Survival**

Start Date: 5/3/2007	Test ID: CSE0507075	Sample ID: CA0000000
End Date: 5/7/2007	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 5/2/2007	Protocol: EPAA 85-EPA Acute	Test Species: PP-Pimephales promelas
Comments: OMC		

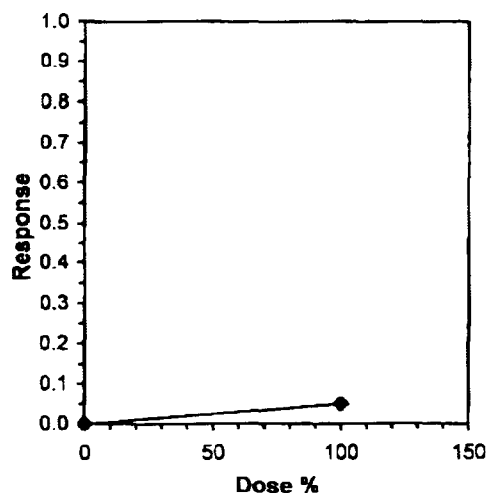
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	0.9000	1.0000		

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	N				Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4				1.0000	1.0000
100	0.9500	0.9500	1.3305	1.2490	1.4120	8.661	2	1.633	2.132	0.1064	0.9500	0.9500

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.82716	0.713	0	2.5		
Equality of variance cannot be confirmed						
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	0.04368	0.0448	0.00885	0.00332	0.17781	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

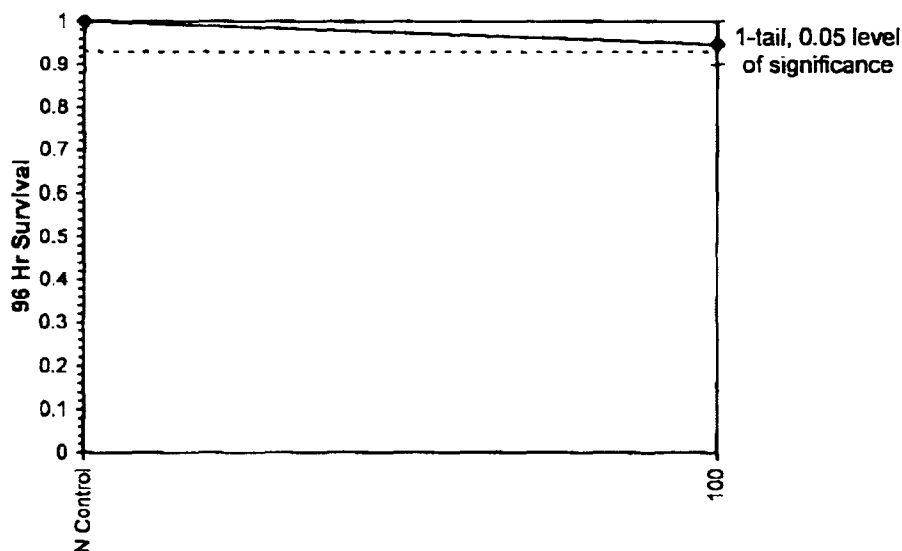
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



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Dose-Response Plot



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 Sample Date: 5/2/2007      Protocol: EPAA 85-EPA Acute      Test Species: PP-Pimephales promelas  
 Comments: OMC

## Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.63	24.00	25.90	1.10	4.25	3
100		24.13	24.00	24.40	0.23	1.99	3
N Control	pH	8.30	8.30	8.30	0.00	0.00	3
100		8.13	8.00	8.20	0.12	4.18	3
N Control	DO mg/L	7.63	7.20	8.20	0.51	9.38	3
100		6.97	6.20	7.60	0.71	12.09	3
N Control	Hardness mg/L	92.33	90.00	94.00	2.08	1.56	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Cond-umhos	326.67	315.00	340.00	12.58	1.09	3
100		1450.67	1446.00	1455.00	4.51	0.15	3
N Control	Alkalinity mg/L	63.67	61.00	65.00	2.31	2.39	3
100		250.00	250.00	250.00	0.00	0.00	3