

APPENDIX B

Example Toxicity Test Report

Report Date:
Link:

CETIS Test Summary									
Caridophylla 48-h Acute Survival Test									
Test No:	Test Type:	Survival (ABR)	Duration:	47 Hours	Species:	Caridophylla tuba			
Start Date:	08 Jan 10 07:05 PM	Protocol:	EPA/821/R-03-043 (2002)	Source:	In-house Culture	Test Species and Source			
Ending Date:	12 Jan 10 01:10 PM	Oil Water:	Fernier Water						
Setup Date:	08 Jan 10 07:05 PM	Biore:	Not Applicable						
Sample No:	03-490-0208	Material:	Industrial Stormwater	Client:					
Sample Date:	07 Jan 10 08:30 PM	Code:		Project:					
Receive Date:	08 Jan 10 10:20 AM	Spuner:							
Sample Age:	26 Hours (1 °C)	Station:				Test Sample Date, Receipt Date and Sample Age at Test Initiation			
Comparison Summary									
Lowest Effect (mortality) observed at a concentration of 12.5% stormwater.									
Analysis	Endpoint	NOEL	LOEL	CHV	M50g	Method			
05-4785-2610	48h Proportion Survived	8.25	12.5	8.833	9.50%	Scott's Many-One Ratio			
Point Estimate Summary									
LC50 of 11% stormwater with confidence intervals of 9.5 - 12.5% stormwater.									
Analysis	Endpoint	% Effect	Conc-%	95% LCL	95% UCL	Method			
11-4785-2372	48h Proportion Survived	50	10.88188	9.44085	12.54287	Trimmed Spearman-Kärber			
Test Acceptability									
Control Survival > 90%, Test Acceptable									
Analysis	Endpoint	Attribute	Statistic	Acceptable Range	Decision				
05-4785-2605	48h Proportion Survived	Control Response	1	0.9 - N/A	Passes acceptability criteria				
11-4785-2672			1	0.9 - N/A	Passes acceptability criteria				
48h Proportion Survived Summary									
Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV	
0	Lab Water	4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%	
8.25		4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%	
12.5		4	0.30000	0.20000	0.40000	0.05774	0.11347	38.48%	
25		4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00%	
50		4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00%	
100		4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00%	
48h Proportion Survived Detail									
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4				
0	Lab Water	1.00000	1.00000	1.00000	1.00000				
8.25		1.00000	1.00000	1.00000	1.00000				
12.5		0.40000	0.30000	0.20000	0.40000	Survival ranged from 20 - 40% in 4 replicates at the 12.5% stormwater exposure concentration. Average survival was 30%.			
25		0.00000	0.00000	0.00000	0.00000				
50		0.00000	0.00000	0.00000	0.00000				
100		0.00000	0.00000	0.00000	0.00000				

Dose response curve shows greater toxicity (complete mortality) at higher exposure concentrations.

What Does A Toxicology Report Show

Ian Pickup



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