Table 55

Harmful Algal Bloom Study: Wet weight, dry weight, and average lethal time of mice injected with an extraction of shellfish samples.

Investigator: Dr. Tian Yan

Sample Number	Genus	Species	Collection Date	Site	Wet Weight (g)	Dry Weight (g)	Ratio (ww/dw)	Average Lethal time (hours)
1	*Mytilus*	*trossulos*	5/27/99	I1	94.1	16	5.9	12
2	*Mytilus*	*trossulos*	5/27/99	I1	83.4	14.5	5.8	1.5
3	*Clinocardium*	*nuttallii*	5/27/99	B49	20.5	3	6.8	nm
4	*Mytilus*	*trossulos*	5/28/99	I3A	103.6	17.5	5.9	12
5	*Mytilus*	*trossulos*	5/28/99	I3A	89.5	14.8	6	24
6	*Mytilus*	*trossulos*	5/29/99	I5B	101.4	22.2	4.5	nm
7	*Mytilus*	*trossulos*	5/29/99	I5B	106.5	26	4	nm
8	*Mytilus*	*trossulos*	5/29/99	I6	78.3	16.5	4.7	nm
9	*Mytilus*	*trossulos*	5/29/99	I6	76.5	15.7	4.9	nm
10	*Ruditapes*	*philippinarium*	5/29/99	I6	90.1	17.2	5.2	nm
11	*Clinocardium*	*nuttallii*	5/29/99	T38	117.7	18.9	8.1	nm
12	*Clinocardium*	*nuttallii*	5/29/99	T38	29.6	4.2	7	nm
13	*Yoldia*	sp.	5/29/99	T38	5.3	0.9	5.9	nm
14	*Mytilus*	*trossulos*	5/30/99	I4	117.1	8.9	6.2	>24
15	*Mytilus*	*trossulos*	5/30/99	I4	97.3	17.2	5.7	>24
16	*Venerupis*	*staninea*	5/30/99	I4	98.3	16.1	6.1	nm
17	*Venerupis*	*staninea*	5/30/99	I4	93.7	16	5.9	nm
18	*Mytilus*	*trossulos*	6/1/99	I2A	97.3	14.9	6.5	>24
19	*Mytilus*	*trossulos*	6/1/99	I2A	98	15.2	6.4	1.1
20	*Mytilus*	*trossulos*	6/2/99	I7	81.9	16.9	4.8	nm
21	*Mytilus*	*trossulos*	6/2/99	I7	56.7	11.3	5	nm

nm = no mouse mortality

Table 56

Harmful Algal Bloom Study: Concentrations of Paralytic Shellfish Poison measured.

Investigator: Dr. Tian Yan

Sample*	Sample Type	Average Lethal time	PSP in Extract (eqv. STX microg/ml)	PSP in Mussel (eqv. STX microg/100g ww)
STX	0.294 microg/ml	9.5 min		
I1	mussel	16.5 h	0.15-0.2	15-20
I2A	mussel	12 h	0.15-0.2	15-20
STX	0.147 microg/ml	15 h		
I3A	mussel	18 h	<0.15	<15
I4	mussel	>24 hr**	<0.15	<15

*sample refers to reference material (STX) or to the site where mussels were collected.
**(>24hr) showed classical PSP symptoms, such as paralyzed legs, slow but deep respiration, and trembling head, yet the mouse survived after 24 h.

STX = saxitoxin
PSP = Paralytic shellfish poison

Table 57

Harmful Algal Bloom Study: Artemia Assay Results

Investigator: Dr. Tian Yan

Site	Date	Result
I1	5/27/99	-
I2A	6/1/99	-
I3A	5/28/99	+
I4	5/30/99	-
I5b	5/29/99	-
I6	5/29/99	-
I7	6/2/99	-

- = negative result
+ = swimming behavior of Artemia was inhibited, and the 24h LC50 of Artemia was about 50%.