Mar. Drugs 2008, 6

Table 4. Maximum STX concentrations, microalgal sources, and geographical reports of STXs in crustaceans.

Crustacean species and presumptive microalgal source	Common name	Maximum STX(s) concentration	Location	Reference
Alexandrium catenella				
Cancer magister	Dungeness crab	72 μg STX eq./100g viscera	Washington, USA	85
Cancer productus	Red rock crab	285 μg STX eq./100g viscera 27 μg STX eq./100g muscle	Washington, USA	161
Fabia subquadrata	Pea crab	32 µg STX eq./100g whole crabs	Washington, USA	85
Hemigrapsus nudus	Purple shore crab	44 μg STX eq./100g whole body minus legs and carapace	Washington, USA	161
Hemigrapsus oregonensis	Green shore crab	31 µg STX eq./100g whole	Washington, USA	161
Pagurus sp.	Hermit crab	35 μg STX eq./100g whole crabs	Washington, USA	85
Pugettia producta	Northern kelp crab	146 μg STX eq./100g eggs; 1710 μg STX eq./100g viscera; 48 μg STX eq./100g muscle	Washington, USA	161
Balanus spp.	Barnacles	84 μg STX eq./100g whole	Washington, USA	161
Alexandrium tamarense				
Anonyx sarsi	Gammarid amphipod	180 μg STX eq./100g (tissue not specified)	St.Lawrence estuary, Canada	162
Cancer borealis	Jonah crab	56 µg STX eq./100g (tissue not specified)	Maine, USA	85
Homarus americanus	American lobster	1512 μg STX eq./100g hepato- pancreas (bioassay); 961 μg STX eq./100g hepatopancreas (HPLC); 69 μg STX eq./100g meat (HPLC)	Bay of Gaspe, Canada	162
Pyrodinium bahamense				
ND	Crab	339 MU* 100 g <sup>-1</sup>	Brunei Darussalam	141

Mar. Drugs 2008, 6

ND	Mangrove crabs	239 MU 100 g <sup>-1</sup> guts; 175 MU 100 g <sup>-1</sup>	Sabah, Malaysia	138
Portunus pelagicus	Blue manna crab	gills 175 MU 100 g <sup>-1</sup> whole crab; 288 MU 100 g <sup>-1</sup> gills; 328 MU 100 g <sup>-1</sup> guts	Sabah, Malaysia	138
		1.8 μg STX eq./100g whole	Northwest Australia	147
Panulirus versicolor	Painted spiny lobster	175 MU 100 g <sup>-1</sup> whole lobster; 175 MU 100 g <sup>-1</sup> body only	Sabah, Malaysia	138
Panulirus longipes	Longlegged spiny lobster	211 MU 100 g <sup>-1</sup> whole lobster; 177 MU 100 g <sup>-1</sup> head and legs	Sabah, Malaysia	138
ND	Penaeid shrimp	175 MU 100 g <sup>-1</sup> frozen tails; 268 MU 100 g <sup>-1</sup> body only	Sabah, Malaysia	138
ND	Penaeid shrimp "Udang"	190 MU 100 g <sup>-1</sup>	Brunei Darussalam	141
nknown origin				
Hemigrapsus sanguineus	Asian shore crab	0.16 MU g <sup>-1</sup> hepatopancreas	Sanriku coast, Japan	146
Metopograpsus frontalis	Mangrove shore crab	$10.0 \ \mu g \ STX \ eq./100g \ whole$	Northwest Australia	147
Pachygrapsus crassipes	Striped shore crab	0.10 MU g <sup>-1</sup> hepatopancreas	Sanriku coast, Japan	146
Percnon planissimum	Sally lightfoot crab	7.4 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
Pilumnus pulcher	Hairy crab	80 μg STX eq./100g whole	Northwest Australia	147
Pilumnus vespertilio	Hairy crab	120 μg STX eq./100g whole	Northwest Australia	147
		6.1 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
Schizophrys aspera	Eyelash spider crab	2.3 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
Telmessus acutidens	Edible shore crab	2723 μg STX eq./100g viscera	Fukushima Prefecture, Japan	163,164
Actaeodes tomentosus	Xanthid crab	130 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
Atergatis floridus	Xanthid crab	Positive STX, NEO, GTX2	Fiji Islands	165
		16,611 µg STX eq./100g whole	Northwest Australia	147

Mar. Drugs 2008, 6

		490 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
		Positive GTX 1-4	Taiwan	166
Atergatopsis germaini	Xanthid crab	Positive GTX 3, NEO, STX	Taiwan	167
Demania reynaudi	Xanthid crab	Positive GTX 3-4, NEO	Taiwan	166
Eriphia scabricula	Xanthid crab	180 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
Eriphia sebana	Xanthid crab	Positive STX, NEO, GTX1, GTX2	Great Barrier Reef, Australia	168
Euzanthus exsculptus	Xanthid crab	$29 \mu g STX eq./100g whole$	Northwest Australia	147
Lophozozymus octodentatus	Xanthid crab	23 µg STX eq./100g whole	Northwest Australia	147
Lophozozymus pictor	Xanthid crab	18.9 MU g <sup>-1</sup> whole crab	Australia	169
		Positive GTX	Taiwan	170
Neoxanthias impressus	Xanthid crab	147 μg STX eq./100g whole	Northwest Australia	147
		10 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
Platypodia granulosa	Xanthid crab	110 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
Platypodia pseudogranulosa	Xanthid crab	$10 \mu g STX eq./100g whole$	Northwest Australia	147
Xanthias lividus	Xanthid crab	Positive GTX	Taiwan	171
Zosimus aeneus	Xanthid crab	Positive STX, NEOSTX, GTXI-3	Fiji Islands	165
		Positive GTX	Taiwan	171
		660 MU g <sup>-1</sup> whole	Ishigaki Island, Japan	52
		108,000 μg STX eq./100g chelae muscle; 720 μg STX eq./100g cephalothorax muscle	Japan	172
		$78 \mu g$ STX eq./100g whole	Northwest Australia	147
		259 MU g <sup>-1</sup> whole crab	Philippines	173
Procambarus clarkii	Red swamp crayfish	0.23 MU g <sup>-1</sup> hepatopancreas	Sanriku, Japan	146
Carcinoscorpius rotundicauda	Mangrove horseshoe crab	STX	Thailand	174

<sup>\*</sup> MU = mouse units (1MU = 0.18  $\mu$ gSTX); ND = no data