

Table 5b. Bioaccumulation of Copper by Saltwater Organisms

Species	Chemical	Concentration in Water (µg/L)	Salinity (g/kg)	Duration Days	Tissue	BCF or BAF	Reference
Polychaete worm, <i>Phyllodoce maculata</i>	Copper sulfate	40	FSW ^b	35	Whole body	2,500	McLusky and Phillips 1975
Polychaete worm, <i>Neanthes arenaceodentata</i>	Copper nitrate	40	31	28	Whole body	2,950	Pesch and Morgan 1978
Polychaete worm, <i>Eudistylia vancouveri</i>	Copper chloride	6	30.4	29	Body (less radioles)	1,006	Young et al. 1979
Blue mussel (0.45 cm), <i>Mytilus edulis</i>	Copper chloride	3	25	550	Soft tissue	7,730	Calabrese et al. 1984
Blue mussel (0.45 cm), <i>Mytilus edulis</i>	Copper chloride	7.9	25	550	Soft tissue	4,420	Calabrese et al. 1984
Blue mussel (0.45 cm), <i>Mytilus edulis</i>	Copper chloride	12.7	25	550	Soft tissue	5,320	Calabrese et al. 1984
Mussel (6.02-6.34 cm), <i>Mytilus galloprovincialis</i>	Field study	0.285	37-38	266	Soft tissue	3,263	Martincic et al. 1992
Mussel (6.02-6.34 cm), <i>Mytilus galloprovincialis</i>	Field study	0.446	37-38	266	Soft tissue	2,491	Martincic et al. 1992
Mussel (6.02-6.34 cm), <i>Mytilus galloprovincialis</i>	Field study	0.203	37-38	266	Soft tissue	4,384	Martincic et al. 1992
Mussel (6.02-6.34 cm), <i>Mytilus galloprovincialis</i>	Field study	0.177	37-38	266	Soft tissue	4,915	Martincic et al. 1992
Bay scallop (5.12-6.26 cm), <i>Argopecten irradians</i>	Copper chloride	4.56	29-32	56	Muscle	185	Zarogian and Johnson 1983
Bay scallop (5.12-6.26 cm), <i>Argopecten irradians</i>	Copper chloride	4.56	29-32	56	Viscera	3,816	Zarogian and Johnson 1983
Pacific oyster, <i>Crassostrea gigas</i>	Field study	25.45	-	32	Soft tissue	34,600	Han and Hung 1990
Pacific oyster, <i>Crassostrea gigas</i>	Field study	9.66	-	32	Soft tissue	57,000	Han and Hung 1990
Pacific oyster, <i>Crassostrea gigas</i>	Field study	10.37	-	32	Soft tissue	33,400	Han and Hung 1990
Atlantic oyster, <i>Crassostrea virginica</i>	Field study	25	31	140	Soft tissue	27,800	Shuster and Pringle 1968
Soft-shell clam, <i>Mya arenaria</i>	Field study	100	31	35	Soft tissue	790	Shuster and Pringle 1968

^a Results are based on copper, not the chemical.

^b FSW=Full Strength Seawater.