

<Marine Organism Rearing Log>

9 AM, April 18, 2023

Weather: Sunny

Water temperature: 17.7°C

According to the IAEA, cesium is concentrated by about 100 times in fish bodies. Therefore, as a precaution, we measured cesium in flounders being reared in ALPS treated water added seawater, and the results were below the detection limit. Please note that cesium content in the rearing seawater has been below the detection limit (less than 1 Bq/L) throughout the rearing period.

Fish

TABLE III. CONCENTRATION FACTORS FOR FISH

Element	IAEA-TECDOC-211 value ^a [179]	Recommended value ^a	Note
H	1 × 10 ⁰	1 × 10 ⁰	See Section 3.3
C	5 × 10 ⁴	2 × 10 ⁴	See Section 3.3.1
Na	1 × 10 ⁻¹	1 × 10 ⁰	See Section 3.3
S	1 × 10 ⁰	1 × 10 ⁰	F1
Cl	1 × 10 ⁰	6 × 10 ⁻²	F1
Ca	1 × 10 ⁰	2 × 10 ⁰	F1
Sc	—	1 × 10 ⁻³	F1
Cr	1 × 10 ²	2 × 10 ²	F3
Mn	5 × 10 ²	1 × 10 ²	F4
Fe	1 × 10 ³	3 × 10 ⁴	F4
Co	1 × 10 ²	7 × 10 ²	F5
Ni	5 × 10 ²	1 × 10 ³	F6
Zn	2 × 10 ³	1 × 10 ³	F6
Se	1 × 10 ²	1 × 10 ⁴	F7
Kr	—	(1 × 10 ⁰)	See Section 3.3
Sr	1 × 10 ⁰	3 × 10 ⁰	F8
Y	1 × 10 ⁰	2 × 10 ¹	F9
Zr	1 × 10 ⁰	2 × 10 ¹	F10
Nb	1 × 10 ⁰	3 × 10 ¹	F11
Tc	1 × 10 ¹	8 × 10 ¹	F12
Ru	1 × 10 ⁰	2 × 10 ⁰	F13
Pd	(3 × 10 ³)	(3 × 10 ³)	F1
Ag	1 × 10 ³	1 × 10 ⁴	F14
Cd	—	5 × 10 ³	F15
In	—	5 × 10 ²	F16
Sn	1 × 10 ³	5 × 10 ⁵	F17
Sb	1 × 10 ³	6 × 10 ²	F18
Te	1 × 10 ³	1 × 10 ³	F1
I	1 × 10 ¹	9 × 10 ⁰	F19
Xc	—	1 × 10 ⁰	See Section 3.3
Cs	5 × 10³	1 × 10²	F20
Ba	—	1 × 10 ⁰	F21
Ce	(1 × 10 ³)	5 × 10 ¹	F22
Pm	1 × 10 ²	(3 × 10 ²)	F23
Sm	(1 × 10 ²)	(3 × 10 ²)	F23
Eu	(1 × 10 ²)	3 × 10 ³	F23
Gd	—	(3 × 10 ³)	F23
Tb	—	6 × 10 ³	F23
Dy	—	(3 × 10 ³)	F23

36