

Algae

Art. ID	IAEA-392
Unit	20 g
Delivery details	No Dangerous Good /not restricted

Description

The IAEA-392 Algae material was prepared by the Analytical Quality Control Services of the International Atomic Energy Agency in co-operation with the Institute of Microbiology, Academy of Sciences of the Czech Republic in Trebon, during 1995. The IAEA-392 algae material (type: *Scenedesmus obliquus* 208) was produced under standard outdoor culture conditions. Mineral nutrients were prepared from p.a. chemicals and added as required to maintain the optimum balanced composition of the nutrient medium in the growing culture. After harvesting, the algae were stored in a coupled tank and continuously spray dried at moderate venting and temperature avoiding a damage of the cell structure. The bulk algae material and the sealed bottles were treated with gamma ray irradiation with a total dose of 25 kGy using a Co-60 source to improve long-term stability of the material by reducing microbial action.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Information value	Arsenic (As)	[7440-38-2]	0,175	mg/kg		
Recommended value	Calcium (Ca)	[7440-70-2]	2680	mg/kg		
Information value	Cadmium (Cd)	[7440-43-9]	0,0173	mg/kg		
Information value	Cobalt (Co)	[7440-48-4]	3,33	mg/kg		
Information value	Chromium (Cr)	[7440-47-3]	4,57	mg/kg		
Recommended value	Copper (Cu)	[7440-50-8]	23,2	mg/kg		
Recommended value	Iron (Fe)	[7439-89-6]	497	mg/kg		
Information value	Potassium (K)	[7440-09-7]	8383	mg/kg		
Recommended value	Magnesium (Mg)	[7439-95-4]	2376	mg/kg		
Recommended value	Manganese (Mn)	[7439-96-5]	67,5	mg/kg		
Recommended value	Sodium (Na)	[7440-23-5]	680	mg/kg		
Recommended value	Nickel (Ni)	[7440-02-0]	0,571	mg/kg		
Recommended value	Lead (Pb)	[7439-92-1]	0,574	mg/kg		
Recommended value	Zinc (Zn)	[7440-66-6]	128	mg/kg		