

Gadolinium-Uptake by Aquatic and Terrestrial Organisms – Distribution Determined by Laser Ablation Inductively Coupled Plasma Mass Spectrometry

Jana Lingott, Uwe Lindner, Lena Telgmann, Diego Esteban-Fernández, Norbert Jakubowski, Ulrich Panne

Electronic supplementary information (ESI)

table 1: weight of the contents for WC-medium

parent solution	compound	weight of contents [g]	nutrition solution
I	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$	3.68	4 mL parent solution I to 2000 ml nutrition solution
	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	3.702	
	NaHCO_3	1.260	
	$\text{K}_2\text{HPO}_4 \cdot 3\text{H}_2\text{O}$	1.140	
	NaNO_3	8.501	
	$\text{Na}_2\text{SiO}_3 \cdot 9\text{H}_2\text{O}$	2.119	
		to 200 mL	
II micronutrients	Na_2EDTA	4.36	1 mL parent solution II to 2000 ml nutrition solution
	$\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$	3.152	
	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	0.010	
	$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	0.022	
	$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	0.010	
	$\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$	0.180	
	$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	0.010	
	H_3BO_3	1.000	
		to 500 mL	
III.1 vitamin	vitamin	g per 50 mL	to 50 mL
	biotin	0.010	
III.2 vitamin	parent solution III.1	100 μL	2 mL parent solution II to 2000 mL nutrition solution
	thiamine HCl	0.010	
		to 100 mL	
HEPES-buffer		0.201	to 2000 mL nutrition solution

table 2: weight of the contents for Elendt M4-medium

parent solution	compound	weight of contents [g]	nutrition solution
I	Na ₂ EDTA·2H ₂ O	0.500	1 mL parent solution I to 2000 mL nutrition solution
	FeSO ₄ ·7H ₂ O	0.199	
	to 100 mL		
II	CaCl ₂ ·2H ₂ O	5.879	20 mL parent solution II to 2000 mL nutrition solution
	MgSO ₄ ·7H ₂ O	2.468	
	KCl	0.117	
	NaHCO ₃	1.296	
	to 200 mL		
III cationen	MnCl ₂ ·4H ₂ O	0.721	1 mL parent solution III to 2000 ml nutrition solution
	LiCl	0.613	
	RbSO ₄	0.157	
	SrCl ₂ ·6H ₂ O	0.305	
	CuCl ₂ ·2H ₂ O	0.033	
	ZnSO ₄	0.026	
	CoCl ₂ ·6H ₂ O	0.021	
	to 1000 mL		
IV.1 anionen	KI	0.0065	1 mL parent solution IV.1 to 2000 mL nutrition solution
	Na ₂ SeO ₃	0.0044	
	NH ₄ VO ₃	0.0012	
	NaBr	0.0320	
	Na ₂ MoO ₄ ·2H ₂ O	0.1260	
	to 1000 mL		
IV.2 anionen	H ₃ BO ₃	5.722	5 mL parent solution IV.2 to 2000 mL nutrition solution
	NaNO ₃	27.409	
	to 100 mL		
V	KH ₂ PO ₄	0.014	

phosphate	K ₂ HPO ₄	0.020	
		to 100 mL	2 mL parent solution V to 2000 mL nutrition solution
VI	Na ₂ SiO ₃	1.000	
silicate		to 500 mL	1 mL parent solution VI to 2000 mL nutrition solution
VII.1	B12	0.0101	
vitamin	biotin	0.0077	
		to 200 mL	
VII.2	VII.1	2 ml	
vitamin	thiamine (HCl)	0.0074	
		to 100 mL	4 mL parent solution VII.2 to 2000 mL nutrition solution