

Table of assigned values Nutrients/Major Ions N150

1st Edition, 16.03.2020

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Alkalinity Ks 4,3	N150 A	mmol/l	4.1 ±	0.0162	0.0821	2
	N150 B	mmol/l	2.74 ±	0.0137	0.0547	2
Ammonium (as NH ₄)	N150 A	mg/l	0.0588 ±	0.0023	0.00706	12
	N150 B	mg/l	0.321 ±	0.00634	0.0385	12
Boron	N150 A	mg/l	0.0209 ±	0.000944	0.0023	11
	N150 B	mg/l	0.00948 ±	0.00044	0.00104	11
Calcium	N150 A	mg/l	71.6 ±	0.691	2.22	3.1
	N150 B	mg/l	48.2 ±	0.463	1.5	3.1
Chloride	N150 A	mg/l	31 ±	0.209	1.24	4
	N150 B	mg/l	11.5 ±	0.13	0.459	4
DOC (as C)	N150 A	mg/l	1.85 ±	0.0645	0.185	10
	N150 B	mg/l	2.45 ±	0.0593	0.245	10
El. conductivity (25°C)	N150 A	µS/cm	545 ±	2.62	7.09	1.3
	N150 B	µS/cm	350 ±	1.44	4.56	1.3
Hydrogen carbonate	N150 A	mg/l	249 ±	1.82	4.99	2
	N150 B	mg/l	165 ±	1.09	3.3	2
Magnesium	N150 A	mg/l	16.2 ±	0.207	0.648	4
	N150 B	mg/l	10.9 ±	0.149	0.435	4
Nitrate (as NO ₃)	N150 A	mg/l	7.06 ±	0.16	0.353	5
	N150 B	mg/l	12 ±	0.174	0.601	5
Nitrite (as NO ₂)	N150 A	mg/l	0.202 ±	0.00286	0.0107	5.3
	N150 B	mg/l	0.221 ±	0.00316	0.0117	5.3
Orthophosphate (as PO ₄)	N150 A	mg/l	0.137 ±	0.00441	0.0123	9
	N150 B	mg/l	0.166 ±	0.00363	0.0149	9
pH-value	N150 A	-	7.77 ±	0.027	0.155	2
	N150 B	-	7.74 ±	0.033	0.155	2
Potassium	N150 A	mg/l	2.28 ±	0.0331	0.118	5.2
	N150 B	mg/l	1.24 ±	0.0282	0.0644	5.2
Sodium	N150 A	mg/l	17.7 ±	0.216	0.602	3.4
	N150 B	mg/l	6.39 ±	0.087	0.217	3.4
Sulfate (as SO ₄)	N150 A	mg/l	31.2 ±	0.278	1.03	3.3
	N150 B	mg/l	18.3 ±	0.193	0.603	3.3
Total-P (as PO ₄)	N150 A	mg/l	1.48 ±	0.0285	0.111	7.5
	N150 B	mg/l	0.7 ±	0.0182	0.0525	7.5
Total hardness	N150 A	mmol/l	2.48 ±	0.0362	0.0745	3
	N150 B	mmol/l	1.68 ±	0.022	0.0504	3
Total nitrogen	N150 A	mg/l	1.76 ±	0.0577	0.146	8.3
	N150 B	mg/l	3.1 ±	0.101	0.258	8.3

Legend:

Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criterion	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criterion [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)