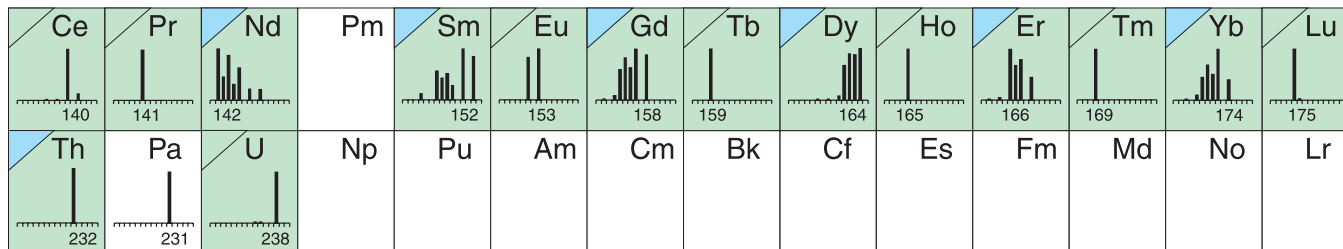
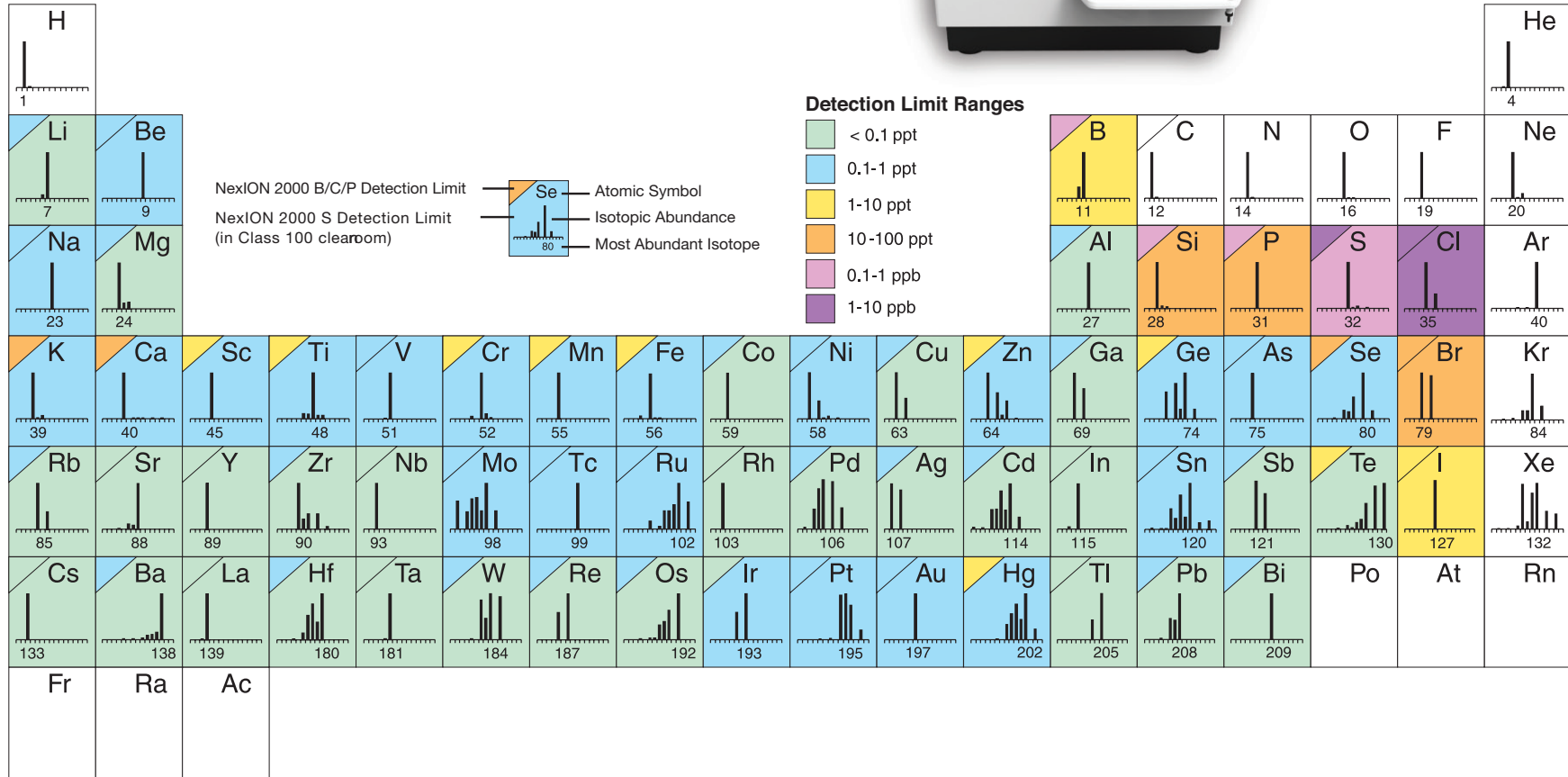




# NexION® 2000 ICP Mass Spectrometer



# Relative Abundance of the Natural Isotopes

Isotope		%	%	%
1	H	99.985		
2	H	0.015		
3			He 0.00137	
4			He 99.999863	
5				Li 7.5
6				Li 92.5
7				
8				
9	Be	100		
10			B 19.9	
11			B 80.1	
12				C 98.90
13				C 1.10
14	N	99.643		
15	N	0.366		
16			O 99.762	
17			O 0.038	
18			O 0.200	
19				F 100
20	Ne	90.48		
21	Ne	0.27		
22	Ne	9.25		
23			Na 100	
24				Mg 78.99
25				Mg 10.00
26				Mg 11.01
27	Al	100		
28			Si 92.23	
29			Si 4.67	
30			Si 3.10	
31				P 100
32	S	95.02		
33	S	0.75		
34	S	4.21		
35			Cl 75.77	
36	S	0.02		Ar 0.337
37			Cl 24.23	
38				Ar 0.063
39	K	93.2581		
40	K	0.0117	Ca 96.941	Ar 99.600
41	K	6.7302		
42			Ca 0.647	
43			Ca 0.135	
44			Ca 2.086	
45				Sc 100
46	Ti	8.0	Ca 0.004	
47	Ti	7.3		
48	Ti	73.8	Ca 0.187	
49	Ti	5.5		
50	Ti	5.4	V 0.250	Cr 4.345
51			V 99.750	
52				Cr 83.789
53				Cr 9.501
54	Fe	5.8		Cr 2.365
55			Mn 100	
56	Fe	91.72		
57	Fe	2.2		
58	Fe	0.28		Ni 68.077
59			Co 100	
60				Ni 26.23

Isotope		%	%	%
61				Ni 1.140
62				Ni 3.634
63				
64	Cu	69.17	Zn 48.6	Ni 0.926
65				
66	Cu	30.83	Zn 27.9	
67			Zn 4.1	
68			Zn 18.8	
69				Ga 60.108
70	Ge	21.23	Zn 0.6	
71				Ga 39.892
72	Ge	27.66		
73	Ge	7.73		
74	Ge	35.94	Se 0.89	
75				As 100
76	Ge	7.44	Se 9.36	
77			Se 7.63	
78	Kr	0.35	Se 23.78	
79				Br 50.69
80	Kr	2.25	Se 49.61	
81				Br 49.31
82	Kr	11.6	Se 8.73	
83	Kr	11.5		
84	Kr	57.0	Sr 0.56	
85				Rb 72.165
86	Kr	17.3	Sr 9.86	
87			Sr 7.00	Rb 27.835
88			Sr 82.58	
89				Y 100
90	Zr	51.45		
91	Zr	11.22		
92	Zr	17.15	Mo 14.84	
93				Nb 100
94	Zr	17.38	Mo 9.25	
95			Mo 15.92	
96	Zr	2.80	Mo 16.68	Ru 5.52
97			Mo 9.55	
98			Mo 24.13	Ru 1.88
99				Ru 12.7
100			Mo 9.63	Ru 12.6
101				Ru 17.0
102	Pd	1.02		Ru 31.6
103			Rh 100	
104	Pd	11.14		Ru 18.7
105	Pd	22.33		
106	Pd	27.33	Cd 1.25	
107				Ag 51.839
108	Pd	26.46	Cd 0.89	
109				Ag 48.161
110	Pd	11.72	Cd 12.49	
111			Cd 12.80	
112	Sn	0.97	Cd 24.13	
113			Cd 12.22	In 4.3
114	Sn	0.65	Cd 28.73	
115	Sn	0.34		
116	Sn	14.53	Cd 7.49	In 95.7
117	Sn	7.68		
118	Sn	24.23		
119	Sn	8.59		
120	Sn	32.59	Te 0.096	

Isotope		%	%	%
121				Sb 57.36
122	Sn	4.63	Te 2.603	
123			Te 0.908	Sb 42.64
124	Sn	5.79	Te 4.816	Xe 0.10
125			Te 7.139	
126			Te 18.95	Xe 0.09
127	I	100		
128			Te 31.69	Xe 1.91
129				Xe 26.4
130	Ba	0.106	Te 33.80	Xe 4.1
131				Xe 21.2
132	Ba	0.101		Xe 26.9
133			Cs 100	
134	Ba	2.417		Xe 10.4
135	Ba	6.592		
136	Ba	7.854	Ce 0.19	Xe 8.9
137	Ba	11.23		
138	Ba	71.70	Ce 0.25	La 0.0902
139				La 99.9098
140			Ce 88.48	
141				Pr 100
142	Nd	27.13	Ce 11.08	
143	Nd	12.18		
144	Nd	23.80	Sm 3.1	
145	Nd	8.30		
146	Nd	17.19		
147			Sm 15.0	
148	Nd	5.76	Sm 11.3	
149			Sm 13.8	
150	Nd	5.64	Sm 7.4	
151				Eu 47.8
152	Gd	0.20	Sm 26.7	
153				Eu 52.2
154	Gd	2.18	Sm 22.7	
155	Gd	14.80		
156	Gd	20.47	Dy 0.06	
157	Gd	15.65		
158	Gd	24.84	Dy 0.10	
159				Tb 100
160	Gd	21.86	Dy 2.34	
161			Dy 18.9	
162	Er	0.14	Dy 25.5	
163			Dy 24.9	
164	Er	1.61	Dy 28.2	
165				Ho 100
166	Er	33.6		
167	Er	22.95		
168	Er	26.8	Yb 0.13	
169				Tm 100
170	Er	14.9	Yb 3.05	
171			Yb 14.3	
172			Yb 21.9	
173			Yb 16.12	
174			Yb 31.8	Hf 0.162
175	Lu	97.41		
176	Lu	2.59	Yb 12.7	Hf 5.206
177				Hf 18.606
178				Hf 27.297
179				Hf 13.629
180	Ta	0.012	W 0.13	Hf 35.100

Isotope		%	%	%
181	Ta	99.988		
182			W 26.3	
183			W 14.3	
184	Os	0.02	W 30.67	
185				Re 37.40
186	Os	1.58	W 28.6	
187	Os	1.6		Re 62.60
188	Os	13.3		
189	Os	16.1		
190	Os	26.4		Pt 0.01
191			Ir 37.3	
192	Os	41.0		Pt 0.79
193			Ir 62.7	
194				Pt 32.9
195				Pt 33.8
196	Hg	0.15		Pt 25.3
197			Au 100	
198	Hg	9.97		Pt 7.2
199	Hg	16.87		
200	Hg	23.10		
201	Hg	13.18		
202	Hg	29.86		
203				Tl 29.524
204	Hg	6.87	Pb 1.4	
205				Tl 70.476
206			Pb 24.1	
207			Pb 22.1	
208			Pb 52.4	
209	Bi	100		
210				
211				
212				
213				
214				
215				
216				
217				
218				
219				
220				
221				
222				
223				
224				
225				
226				
227				
228				
229				
230				
231	Pa	100		
232	Th	100		
233				
234	U	0.0055		
235	U	0.7200		
236				
237				
238	U	99.2745		

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