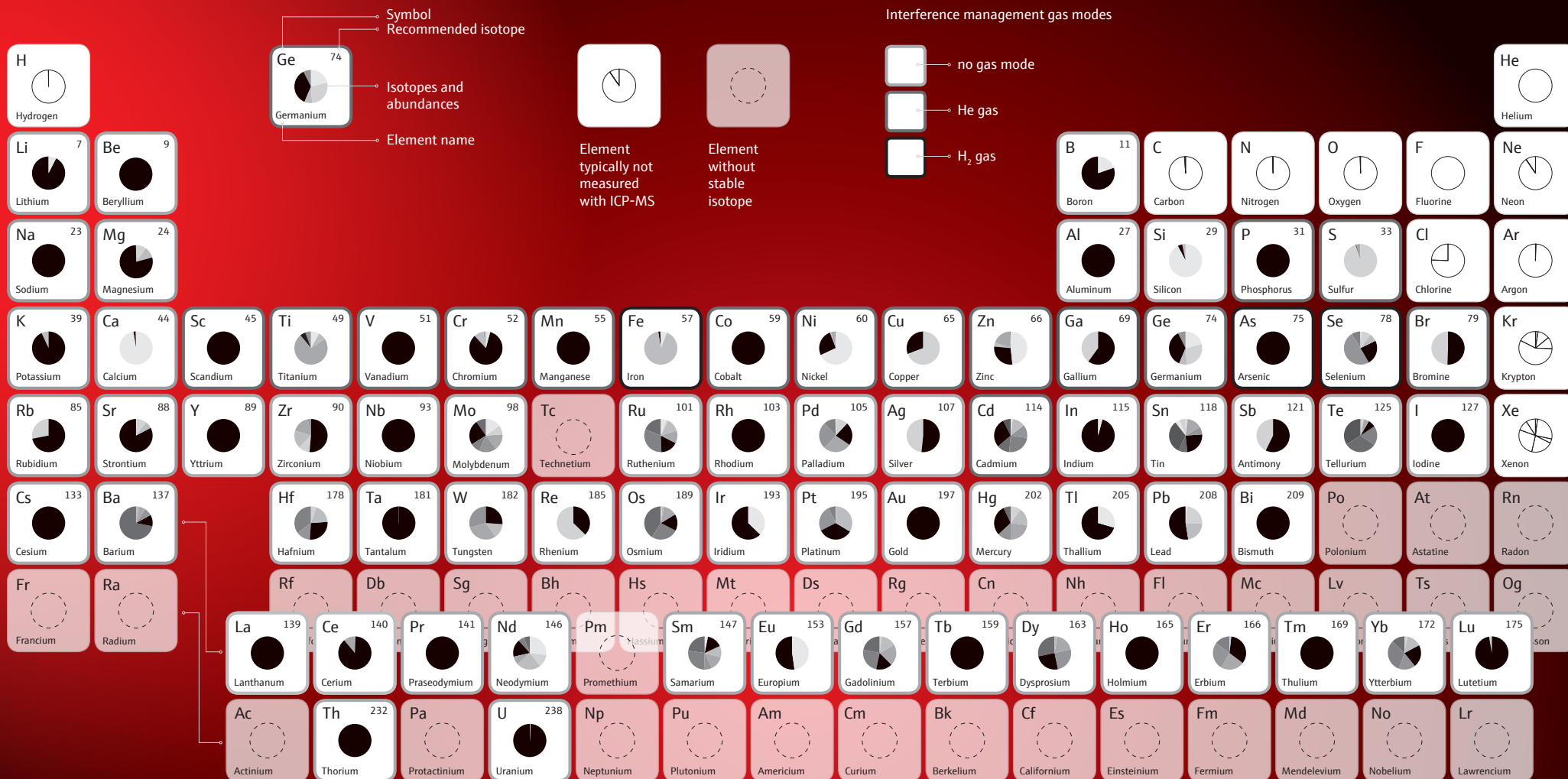




PlasmaQuant MS – ICP-MS Tailored to Your Requirements

- **Best detection limits and highest sample throughput**
10 times more sensitivity, 50% more samples per hour
- **Robust ionization with lowest argon consumption**
less than 9 L/min argon gas
- **True wide range multielement analysis**
11 orders analytical range 0.1 - 10¹⁰ cps in pulse-counting mode only
- **Exceptional application efficiency** – outstanding mass separation, lowest abundance sensitivity, >5000 amu/s scan speed

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Relative Abundances of the Natural Isotopes and Their First and Second Ionization Potentials

	IP1	IP2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
H	13.6	-	99.98	0.02														
He	24.6	54			100.0													
Li	5.4	77					7.50	92.5										
Be	9.3	18.2							100.0									
B	8.3	25									19.9	80.1						
C	11.3	24										98.9	1.10					
N	14.5	30												99.6	0.37			
O	13.6	35															99.8	
O	13.6	35	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
F	17.4	35	0.04	0.20	100.0													
Ne	21.6	41				90.5	0.27	9.25										
Na	5.1	47.3							100.0									
Mg	7.6	15							79.0	10.0	11.0							
Al	6	18.8										100.0						
Si	8.2	16.3										92.2	4.67	3.10				
P	10.5	19.7														100.0		
S	10.4	23.3															95.0	
S	10.4	23.3	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Cl	13	23.8	0.75	4.21		0.02												
Ar	15.6	27.6				0.34		0.06										
K	4.3	31.6							93.3	0.01	6.73							
Ca	6.1	11.9							96.9		0.65	0.14	2.09		0.004		0.19	
Sc	6.5	12.8												100.0				
Ti	6.8	13.6													8.25	7.44	73.7	
Ti	6.8	13.6	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
V	6.7	14.7	5.50	5.40														
Cr	6.8	16.5		0.25	99.8													
Mn	7.4	15.6		4.35		83.8	9.50	2.37										
Fe	7.9	16.2							100.0									
Co	7.9	17.1						5.85		91.8	2.20	0.28						
Ni	7.6	18.2											100.0					
Cu	7.7	20.3								68.1			26.2	1.14	3.63		0.93	
Zn	9.4	18														69.2		
Cu	7.7	20.3															48.6	
Zn	9.4	18	30.8															
Ga	6	20.5		65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Ge	7.9	15.9																
As	9.8	18.6																
Se	9.8	21.2																
Br	11	21.8																
Kr	14	24.4																
Se	9.8	21.2																
Br	11	21.8	49.3															
Kr	14	24.4		81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
Rb	4.2	27.3																
Sr	5.7	11		11.6	11.5	57.0		17.3										
Y	6.4	12.2																
Zr	6.8	13.1																
Nb	6.9	14.3																
Mo	7.1	16.1																
Ru	7.4	16.8																

Recommended Isotope

The sections of the table show 16 isotopes each. This means you'll find according oxide forming elements in the same column, one section above.

	IP1	IP2	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
Mo	7.1	16.1	9.55	24.1		9.63												
Ru	7.4	16.8		1.88	12.7	12.6	17.0	31.6		18.7								
Rh	7.5	18.8							100.0									
Pd	8.3	19.6						1.02		11.1	22.3	27.3		26.5		11.7		
Ag	7.6	21.5											51.8		48.2			
Cd	9	16.9										1.25		0.89		12.5	12.8	24.1
Sn	7.3	14.6															0.97	
Cd	9	16.9	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
In	5.8	18.9	12.2	28.7		7.49												
Sn	7.3	14.6	4.30		95.7													
Sb	8.6	16.5		0.65	0.34	14.5	7.68	24.2	8.59	32.6		4.63		5.79				
Te	9	18.6									0.10		2.60	0.91	4.82	7.14	19.0	31.7
I	10.5	19.4															100.0	
Xe	12.1	21.2													0.09	0.09		1.91
Te	9	18.6	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
Xe	12.1	21.2		33.8														
Cs	3.9	25	26.4	4.10	21.2	26.9		10.4		8.90								
Ba	5.2	10		0.11		0.10		2.42	6.59	7.85	11.2	71.7						
La	5.6	11.1										0.09	99.9					
Ce	5.5	10.8									0.19	0.25		88.5		11.1		
Pr	5.4	10.5													100.0			
Nd	5.5	10.7														27.1	12.2	23.8
Sm	5.6	11.7															3.10	
Nd	5.5	10.7	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
Sm	5.6	11.7	8.30	17.2		5.76		5.64										
Eu	5.7	11.2			15.0	11.3	13.8	7.40		26.7		22.7						
Gd	6.1	12.1									47.8							
Tb	5.8	11.5								0.20		2.18	14.8	20.5	15.7	24.8		21.9
Dy	5.9	11.7															100.0	
Dy	5.9	11.7													0.06	0.10		2.34
Ho	6	11.8	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
Er	6.1	11.9	18.9	25.5	24.9	28.2												
Tm	6.2	12		0.14		1.61	100.0		33.6	23.0	26.8		14.9					
Yb	6.3	12.2										0.13		100.0				
Lu	5.4	13.9											3.05	14.3	21.9	16.1	31.8	12.7
Hf	7	14.9															97.4	2.59
Hf	7	14.9														0.16		5.21
Hf	7	14.9	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
Ta	7.9	-	18.6	27.3	13.6	35.1												
W	8	-			0.01	99.9												
Re	7.9	-			0.13		26.3	14.3	30.7			28.6						
Os	8.7	-								0.02		1.58	1.60	13.3	16.1	26.4		41.0
Ir	9.1	-															37.3	
Pt	9	18.6														0.010		0.79
Ir	9.1	-	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208
Pt	9	18.6	62.7		32.9	33.8	25.3		7.20									
Au	9.2	20.5					100.0											
Hg	10.4	18.8				0.15		10.0	16.9	23.1	13.2	29.9		6.87				
Tl	6.1	20.4											29.5			70.5		
Pb	7.4	15													1.4	24.1	22.1	52.4
Bi	7.3	16.7	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
Bi	7.3	16.7	100.0															
Th	6.1	11.5	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
U	6.1	-									100.0			0.006	0.72		99.3	