

Spectral Lamps

for Optical and Analytical Instrumentation

Product Range

Deuterium Lamps
Tungsten Lamps
Xenon Arc Lamps
Hollow Cathode Lamps

Supported Instruments

Agilent, Waters, Shimadzu, Merck-Hitachi, Dionex, Perkin Elmer, GE Healthcare, Cecil, Gilson, Biorad, Beckmann, Thermo, Varian, ...

Supported Techniques

UV-VIS Spectroscopy
Fluorescence Spectroscopy
Microscopy and Bioanalyzer
Atomic Absorption Spectroscopy

Spectral Lamps from Postnova Analytics

The Company

Postnova Analytics, founded in 1997 in Munich, Germany, is committed to provide high quality consumables and spare parts for chemical analysis technology, such as chromatography and spectroscopy to scientists around the world. We are proud that our company can offer supplies and spare parts for instruments from leading international manufacturers and combines this with a strong technical customer service and support. Our company philosophy clearly focuses on quality as the most important factor for our customers to successfully reach their scientific goals.

Spectral Lamps Product Range

Different light sources are used in various areas of science and analytical instrumentation. Postnova offers specific lamps for many important applications and techniques such as absorbance (UV/VIS) and fluorescence (FLD) detection in liquid chromatography (HPLC), elemental analysis by atomic absorption spectroscopy (AAS), spectral photometry and for microscopy applications. Therefore, Postnova offers a special series of Deuterium lamps (UV, AAS), Tungsten lamps (VIS, Microscopy), Xenon lamps (FLD, Microscopy) and Hollow Cathode lamps (AAS), which are exclusively listed in this catalogue. These lamps can be used for instruments from Agilent Technologies, but we also supply lamps for basically all other manufacturers which are active in the area of scientific analytical instrumentation.

Lamps for Agilent Instruments and other Manufacturers

As an official partner of Agilent, Postnova can offer the original certified lamps for instruments from Agilent Technologies. These genuine Agilent lamps meet the highest standards in the industry, ensuring a maximum of performance and stability for any Agilent Technology instrument. Postnova has developed a strong reputation for providing chromatography supplies and lamps. Agilent Technologies is known as the leading manufacturer with uncompromised and bench-marking product quality. Together both companies impart a unique combination of strengths enabling them to provide high quality lamp products with high quality customer support and service.

Postnova also offers light sources for basically all other analytical instruments from other manufacturers. These lamps are available not only for current instruments of these suppliers, but also for many older types of systems which are no longer supported by the original equipment manufacturer any more. These lamps meet the same high quality standards as lamps supplied by the original instrument manufactures, but are significantly less expensive. Postnova provides its technical customer support resources from a dedicated team which will work closely with our clients to help to find the right light source for each specific instrument.

A) Deuterium Lamps – D2

Deuterium lamps afford the highly stable intense output required by UV lamps typically used in UV absorbance detectors and spectrophotometers. Postnova offers standard and long-life deuterium lamps with guaranteed operating lifetimes of 1000 or 2000 hours, ensuring a high intensity output for the lamp duration. The D2 lamps available from Postnova can be utilized in instruments from all leading manufacturers of UV and Diode Array detectors as well as spectral photometers. The lamps are precisely aligned and have been thoroughly tested to ensure the highest specifications and the best scientific results.

B) Tungsten Lamps – TG

Postnova offers Tungsten halogen lamps to cover the visible light range (VIS) as an extension of the UV spectrum generated by one of Postnova's D2 lamps. VIS lamps function as single light sources in many spectrometers, photometers and microscopes. Additionally, it is possible to combine Tungsten lamps with shine-through deuterium lamps to generate a complete UV / VIS spectrum in one instrument. Postnova offers VIS lamps specially designed and manufactured for use in analytical instruments exclusively.

C) Xenon Lamps – XE

Postnova Analytics offers Xenon lamps with very high brightness which emit a continuous spectrum from the ultraviolet (UV) to the infrared (IR) range. Extremely stable and high light intensity is generated as a point light source, making these lamps ideal for use in spectrophotometers. In Fluorescence spectroscopy XE lamps are commonly used due to their unique performance specifications. Postnova offers Xenon lamps for virtually any spectrophotometer and microscope on the market.

D) Hollow Cathode Lamps – HC

Hollow Cathode lamps are used for generating specific atomic emission lines for sensitive detection of many elements by using Atomic Absorption Spectroscopy (AAS). These lamps comprise the group of metal-vapour discharge lamps, where the cathode is typically made of the element to be detected. Single element lamps have the highest sensitivity and intensity while multi-element lamps have higher throughput at slightly lower sensitivity and intensity levels. Postnova offers a broad range of different single and multi-element hollow cathode lamps for most every AAS instrument on the market.

Why buy Spectral Lamps from Postnova?

Postnova offers high quality lamps for instruments of all leading manufactures in the field of chemical analysis technology. Because we only offer lamps from select and proven brands, we ensure our customers that quality issues will not limit their research at any time. We have carefully chosen the group of suppliers and manufacturers with the best record of stable and high quality products. Plus, a strong and dedicated technical customer support team is available at any time to assist in selecting the right parts, to help save valuable work time and to avoid any potential errors right from the beginning.

Postnova is not only a supplier of spectral lamps, but also is an innovative instrument manufacturer in the area of Field-Flow Fractionation. For this reason, over the years, we have accumulated comprehensive insight into current state-of-the-art manufacturing and quality control processes. This depth of technical instrument knowledge is also the basis for all activities related to our lamp and chromatography consumables business. We know from first hand experience, what works and what does not function properly in spectral lamp technology.

Postnova offers more than just spectral lamps, we also supply the most common other chromatography consumables from one source as well. Products from leading brands, such as Agilent, Varian, Upchurch, Rheodyne, Hamilton, Ismatec and Millipore can be supplied from stock with short delivery times. Our customers can source all necessary supplies and spare parts for their daily lab routine work from just one supplier, quickly and more efficiently, thus reducing administration and shipping costs as well as invested work time.

Every day we work hard and strive to bring the maximum benefit to our customers. We would be delighted to also help and assist you.

Table of Contents

1. Deuterium Lamps	7	1.37	Erma	12
1.1 ABI	7	1.38	Femto	12
1.2 Abimed	7	1.39	GAT	12
1.3 Agilent Technologies	7	1.40	GBC	12, 13
1.4 Alpkem	8	1.41	GE Healthcare	13
1.5 Altex	8	1.42	Gilford	13
1.6 American Hi-Tech	8	1.43	Gilson	13
1.7 Amersham	8	1.44	Gynkotek	13
1.8 Aminco	8	1.45	Hach	13
1.9 Analytik Jena	8	1.46	Hewlett Packard	13
1.10 ATI	8	1.47	Hitachi	14, 15
1.11 Applied Biosystems	8	1.48	Hi-Tech	15
1.12 BAI	8	1.49	IBM	15
1.13 Barspec	8	1.50	ICI	15
1.14 BAS	8	1.51	IFCO	15
1.15 Bausch & Lomb	8	1.52	Instrument SA	15
1.16 Beckmann	9, 10	1.53	Jasco	15
1.17 Biocad	10	1.54	Jobin Yvon	15
1.18 Biorad	10	1.55	Knauer	16
1.19 Bio-Tek Instruments	10	1.56	Kontron	16, 17
1.20 Biotage	10	1.57	Kratos	17
1.21 Biotronic	10	1.58	LDC-Milton Roy	17
1.22 Bischoff	10	1.59	Lear Siegler	17
1.23 Buchler	10	1.60	Linear	17
1.24 Camspec	10	1.61	LKB Biochrom	17
1.25 Carlo Erba	10	1.62	LKB Pharmacia	17
1.26 Cecil Instruments	10, 11	1.63	LKB Produkter	17
1.27 Ciba-Corning	11	1.64	McPherson	17
1.28 Coleman	11	1.65	Meloy Labs	17
1.29 Colera	11	1.66	Merck/Hitachi	18
1.30 Columbia Scientific	11	1.67	Micromeritics	18
1.31 Dionex	11, 12	1.68	Milton Roy	18
1.32 Dupont	12	1.69	Nippon Jarrel Ash	18
1.33 Dynamax	12	1.70	Oriel	18
1.34 EM Science	12	1.71	Perceptive Biosystems	18
1.35 Eppendorf	12	1.72	Perkin Elmer	18, 19, 20
1.36 ERC	12	1.73	Pharmacia	20

1.74	Phillips.....	20	3.1.1	Aluminium - Al.....	30
1.75	Postnova Analytics	20	3.1.2	Antimony - Sb	30
1.76	Pye Unicam.....	20	3.1.3	Arsenic - As.....	30
1.77	Rainin	20	3.1.4	Barium - Ba.....	30
1.78	Saitron.....	20	3.1.5	Beryllium - Be.....	30, 31
1.79	Scientific Systems Inc.....	20	3.1.6	Bismut - Bi	31
1.80	Severn Analytical.....	20	3.1.7	Boron - B	31
1.81	Shimadzu.....	21	3.1.8	Cadmium - Cd.....	31
1.82	Softron	21	3.1.9	Caesium - Cs	31
1.83	Soma.....	21	3.1.10	Calcium - Ca.....	31, 32
1.84	Speck Analytical	21	3.1.11	Cerium - Ce.....	32
1.85	Spectra Physics	21	3.1.12	Cobalt - Co	32
1.86	Spectronic Instruments	21	3.1.13	Copper - Cu	32
1.87	Spectronic Unicam	22	3.1.14	Chromium - Cr.....	32
1.88	SSI.....	22	3.1.15	Dysprosium - Dy	32, 33
1.89	Suntek Science Instr.....	22	3.1.16	Erbium - Er	33
1.90	Thermo.....	22, 23	3.1.17	Europium - Eu	33
1.91	Thermo Finnigan.....	23	3.1.18	Gadolinium - Gd.....	33
1.92	Thermo Separation	23	3.1.19	Gallium - Ga	33
1.93	TJA Solution	23	3.1.20	Germanium - Ge.....	33, 34
1.94	Tosoh	24	3.1.21	Gold - Au.....	34
1.95	Tracor	24	3.1.22	Hafnium - Hf	34
1.96	Unicam	24	3.1.23	Holmium - Ho.....	34
1.97	Varian.....	24, 25	3.1.24	Indium - In.....	34
1.98	Waters	25	3.1.25	Iridium - Ir	34, 35
1.99	Zeiss.....	25, 26	3.1.26	Iron - Fe.....	35
			3.1.27	Lanthan - La	35
			3.1.28	Lead - Pb.....	35
			3.1.29	Lithium - Li	35
			3.1.30	Lutetium - Lu.....	35, 36
			3.1.31	Magnesium - Mg	36
			3.1.32	Manganese - Mn	36
			3.1.33	Mercury - Hg	36
			3.1.34	Molybdenum - Mo	36
			3.1.35	Neodymium - Nd	36, 37
			3.1.36	Nickel - Ni.....	37
			3.1.37	Niob - Nb.....	37
			3.1.38	Osmium - Os.....	37
			3.1.39	Palladium - Pd	37
			3.1.40	Phosphorous - P.....	37, 38
			3.1.41	Platinum - Pt	38
			3.1.42	Potassium - K.....	38
2. Tungsten Lamps			27		
2.1	Agilent Technologies	27			
2.2	Beckmann.....	27			
2.3	Camspec	27			
2.4	Cecil Instruments.....	27			
2.5	Kontron	27			
2.6	Perkin Elmer.....	27, 28			
2.7	Pharmacia.....	28			
2.8	Postnova Analytics	28			
2.9	Shimadzu.....	28			
2.10	Thermo.....	28			
2.11	Unicam	28, 29			
3. Hollow Cathode Lamps			30		
3.1	Single Elements.....	44			

3.1.43	Praseodymium - Pr	38	3.2.10	Magnesium - Mg	47
3.1.44	Rhenium - Re	38	3.2.11	Manganese - Mn	47
3.1.45	Rhodium - Rh	38, 39	3.2.12	Platinum - Pt	47
3.1.46	Rubidium - Rb	39	3.2.13	Silicon - Si	47
3.1.47	Ruthenium - Ru	39	3.2.14	Silver - Ag	47
3.1.48	Samarium - Sm	39	3.2.15	Sodium - Na	47, 48
3.1.49	Scandium - Sc	39	3.3	3 Elements	49
3.1.50	Selen - Se	39, 40	3.3.1	Aluminium - Al	49
3.1.51	Silver - Ag	40	3.3.2	Antimony - Sb	49
3.1.52	Silicon - Si	40	3.3.3	Arsenic - As	49
3.1.53	Sodium - Na	40	3.3.4	Calcium - Ca	49
3.1.54	Strontium - Sr	40	3.3.5	Chromium - Cr	49, 50
3.1.55	Tantalum - Ta	40, 41	3.3.6	Cobalt - Co	50
3.1.56	Tellurium - Te	41	3.3.7	Copper - Cu	50
3.1.57	Terbium - Tb	41	3.3.8	Gold - Au	51
3.1.58	Thallium - Tl	41	3.3.9	Iron - Fe	51
3.1.59	Thorium - Th	41	3.3.10	Molybdenum - Mo	51
3.1.60	Thulium - Tm	41, 42	3.3.11	Silver - Ag	51, 52
3.1.61	Tin - Sn	42	3.4	4 Elements	53
3.1.62	Titan - Ti	42	3.5	Aluminium - Al	53
3.1.63	Tungsten - W	42	3.6	Barium - Ba	53
3.1.64	Uran - U	42	3.7	Chromium - Cr	53
3.1.65	Vanadium - V	42, 43	3.8	Cobalt - Co	54
3.1.66	Ytterbium - Yb	43	3.9	Copper - Cu	54
3.1.67	Yttrium - Y	43	3.10	Molybdenum - Mo	54
3.1.68	Zinc - Zn	43	3.11	5 Elements	55
3.1.69	Zirkonium - Zr	43	3.12	Chromium - Cr	55
3.1.70	Deuterium - D2	43	3.13	Cobalt - Co	55
3.2	2 Elements	44	3.14	6 Elements	56
3.2.1	Aluminium - Al	44	3.15	Chromium - Cr	56
3.2.2	Barium - Ba	44	3.16	7 Elements	57
3.2.3	Cadmium - Cd	44	3.17	Aluminium - Al	57
3.2.4	Calcium - Ca	44, 45	4. Lamp Pictures	59	
3.2.5	Chromium - Cr	45	5. Index	67	
3.2.6	Cobalt - Co	45, 46			
3.2.7	Copper - Cu	46			
3.2.8	Gold - Au	46			
3.2.9	Iron - Fe	46, 47			

Additional Lamps are available on Request!

We reserve the right to change the pictures and technical data of this brochure. The use of the names of the listed Instrument Manufacturer and their trademarks is intended for convenience and does not imply that the mentioned products is of their origin. All Manufacturers names and trademarks mentioned in this brochure are property of their respective owners.

Deuterium Lamps

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
ABI	See Applied Biosystems			
Abimed	See Gilson			
Agilent Technologies	1050 DAD; 79883-60002	1000	0071	Z-DL-AG-1050DAD
	1050 MWD; 79883-60002	1000	0071	Z-DL-AG-1050MWD
	1090 DAD; 79883-60002	1000	0071	Z-DL-AG-1090DAD
	1090 FPD; 79880-60002	1000	0070	Z-DL-AG-1090FPD
	1090 MWD; 79883-60002	1000	0071	Z-DL-AG-1090MWD
	1100 DAD; 2140-0590	1000	0060	Z-DL-AG-1100DAD
	1100 DAD LL; 2140-0813	2000	0064	Z-DL-AG-1100DADLL
	1100 MWD; 2140-0590	1000	0060	Z-DL-AG-1100MWD
	1100 MWD LL; 2140-0813	2000	0064	Z-DL-AG-1100MWDLL
	1100 MWD G1315A; G1365A LL; 5181-1530	2000	0065	Z-DL-AG-1100MWDALL
	1100 VWD; G1314-60100	1000	0076	Z-DL-AG-1100VWD
	1100 VWD LL; 2140-0813	2000	0064	Z-DL-AG-1100VWDLL
	1100 VWD; G1314-60101	1000	0083	Z-DL-AG-1100VWDRFID
	1200 DAD; 2140-0590	1000	0060	Z-DL-AG-1200DAD
	1200 DAD LL; 2140-0813	2000	0064	Z-DL-AG-1200DADLL
	1200 DAD G1315C/D LL; 2140-0820	2000	0092	Z-DL-AG-1200DADCLL
	1200 MWD; 2140-0590	1000	0060	Z-DL-AG-1200MWD
	1200 MWD LL; 2140-0813	2000	0064	Z-DL-AG-1200MWDLL
	1200 MWD G1365B LL; 5181-1530	2000	0065	Z-DL-AG-1200MWDDBLL
	1200 MWD G1365C/D; 2140-0820	2000	0092	Z-DL-AG-1200MWDCLL
	1200 VWD; G1314-60100	1000	0076	Z-DL-AG-1200VWD
	1200 VWD LL; 2140-0813	2000	0064	Z-DL-AG-1200VWDLL
	1200 VWD; G1314-60101	1000	0083	Z-DL-AG-1200VWDRFID
	8452; 08452-60104	1000	0066	Z-DL-AG-8452
	8453; 2140-0605	1000	0062	Z-DL-AG-8453
	8453 LL; 2140-0813	2000	0064	Z-DL-AG-8453LL
	CE System; 2140-0585	1000	0047	Z-DL-AG-CE

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Alpkem	510	1000	0091	Z-DL-ALP-510
	5010	1000	0091	Z-DL-ALP-5010
Altex	100	1000	0029	Z-DL-ALT-100
	163	1000	0031	Z-DL-ALT-163
American Hi-Tech	See Scientific Systems, Inc.			
Amersham	See Pharmacia			
Aminco	DW2	1000	0028	Z-DL-AMI-DW2
	DW2A	1000	0028	Z-DL-AMI-DW2A
	DW2C	1000	0029	Z-DL-AMI-DW2C
	DW2S	1000	0028	Z-DL-AMI-DW2S
	DW2000	1000	0029	Z-DL-AMI-DW2000
Analytik Jena	See Zeiss			
ATI	See Unicam			
Applied Biosystems	1000S	1000	0080	Z-DL-ABI-1000S
	120	1000	0080	Z-DL-ABI-120
	120A	1000	0080	Z-DL-ABI-120A
	130	1000	0080	Z-DL-ABI-130
	130A	1000	0080	Z-DL-ABI-130A
	230A	1000	0080	Z-DL-ABI-230A
	270A-HAT (CZE)	1000	0080	Z-DL-ABI-270A
	SF757	1000	0080	Z-DL-ABI-SF757
	SF759	1000	0080	Z-DL-ABI-SF759
	SF759A	1000	0080	Z-DL-ABI-SF759A
	SF773	1000	0080	Z-DL-ABI-SF773
	SF775	1000	0080	Z-DL-ABI-SF775
	SF783	1000	0080	Z-DL-ABI-SF783
	SF783A	1000	0080	Z-DL-ABI-SF783A
	SF785A	1000	0080	Z-DL-ABI-SF785A
SF980	1000	0080	Z-DL-ABI-SF980	
BAI	See Applied Biosystems			
Barspec	401	1000	0029	Z-DL-BAR-401
	488	1000	0029	Z-DL-BAR-488
BAS	200	1000	0091	Z-DL-BAS-200
Bausch & Lomb	See Thermo			

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Beckmann	24	1000	0099	Z-DL-BEC-24
	25	1000	0099	Z-DL-BEC-25
	26	1000	0099	Z-DL-BEC-26
	34	1000	0099	Z-DL-BEC-34
	35	1000	0099	Z-DL-BEC-35
	36	1000	0099	Z-DL-BEC-36
	100	1000	0029	Z-DL-BEC-100
	163	1000	0022	Z-DL-BEC-163
	164	1000	0099	Z-DL-BEC-164
	165	1000	0099	Z-DL-BEC-165
	167	1000	0099	Z-DL-BEC-167
	5200	1000	0099	Z-DL-BEC-5200
	Acta	1000	0099	Z-DL-BEC-Acta
	DB	1000	0033	Z-DL-BEC-DB
	DBG	1000	0033	Z-DL-BEC-DBG
	DK	1000	0033	Z-DL-BEC-DK
	DU	1000	0033	Z-DL-BEC-DU
	DU40	1000	0099	Z-DL-BEC-DU40
	DU50	1000	0099	Z-DL-BEC-DU50
	DU500	1000	0024	Z-DL-BEC-DU500
	DU520	1000	0024	Z-DL-BEC-DU520
	DU530	1000	0024	Z-DL-BEC-DU530
	DU6	1000	0099	Z-DL-BEC-DU6
	DU600	1000	0004	Z-DL-BEC-DU600
	DU6000	1000	0004	Z-DL-BEC-DU6000
	DU620	1000	0004	Z-DL-BEC-DU620
	DU630	1000	0004	Z-DL-BEC-DU630
	DU640	1000	0004	Z-DL-BEC-DU640
	DU650	1000	0004	Z-DL-BEC-DU650
	DU7	1000	0099	Z-DL-BEC-DU7
	DU7000	1000	0004	Z-DL-BEC-DU7000
	DU7500	1000	0004	Z-DL-BEC-DU7500
DU8	1000	0099	Z-DL-BEC-DU8	
DU800	1000	0004	Z-DL-BEC-DU800	

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Beckmann	Gold	1000	0099	Z-DL-BEC-Gold
	P/ACE MDQ	1000	0016	Z-DL-BEC-ACEMDQ
Biocad	See Applied Biosystems			
Biorad	300	1000	0093	Z-DL-BIR-300
	1503	1000	0029	Z-DL-BIR-1503
	1790	1000	0088	Z-DL-BIR-1790
	BioFocus 2000	1000	0090	Z-DL-BIR-BIF2000
	BioFocus 3000	1000	0091	Z-DL-BIR-BIF3000
	CE2000	1000	0091	Z-DL-BIR-CE2000
	HPE100	1000	0091	Z-DL-BIR-HPE
	MDL 1790	1000	0091	Z-DL-BIR-MDL1790
	MDL 1801	1000	0091	Z-DL-BIR-MDL1801
	UV-1806A	1000	0101	Z-DL-BIR-UV
Bio-Tek Instruments	See Kontron			
Biotage	Isolera 4	1000	0044	Z-DL-BIO-ISO4
Biotronic	BT 8200	1000	0101	Z-DL-BIT-8200
	BT 9510	1000	0091	Z-DL-BIT-9510
	BT 9520	1000	0091	Z-DL-BIT-9520
Bischoff	DAD3L	1000	0131	Z-DL-BIS-DAD3L
	Lambda 1010	1000	0131	Z-DL-BIS-Lam1010
Buchler	All Models	1000	0028	Z-DL-BUC
Camspec	M302	1000	0125	Z-DL-CAS-M302
	M330	1000	0125	Z-DL-CAS-M330
	M350	1000	0125	Z-DL-CAS-M350
Carlo Erba	SP 601	1000	0033	Z-DL-CAR-SP601
	UV vis 20	1000	0091	Z-DL-CAR-20
	UV vis 20RS	1000	0091	Z-DL-CAR-20RS
	other models	1000	0028	Z-DL-CAR
Cecil Instruments	Series 2 Models	1000	0113	Z-DL-CEC-2
	Series 2000	1000	0113	Z-DL-CEC-2000
	Series 3000	1000	0113	Z-DL-CEC-3000
	Series 5000	1000	0113	Z-DL-CEC-5000
	Series 6000	1000	0113	Z-DL-CEC-6000
	Series 7000	1000	0113	Z-DL-CEC-7000

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Cecil Instruments	Series 8000	1000	0113	Z-DL-CEC-8000
	Series 9000	1000	0113	Z-DL-CEC-9000
	CE 1010	1000	0113	Z-DL-CEC-1010
	CE 1020	1000	0113	Z-DL-CEC-1020
	CE 1070	1000	0113	Z-DL-CEC-1070
	CE 1200	1000	0113	Z-DL-CEC-1200
	CE 1220	1000	0113	Z-DL-CEC-1220
	CE 2021	1000	0113	Z-DL-CEC-2021
	CE 2202	1000	0113	Z-DL-CEC-2202
	CE 2272	1000	0113	Z-DL-CEC-2272
	CE 2292	1000	0113	Z-DL-CEC-2292
	CE 4400	1000	0113	Z-DL-CEC-4400
	CE 5501	1000	0113	Z-DL-CEC-5501
	CE 5502	1000	0113	Z-DL-CEC-5502
	CE 6600	1000	0113	Z-DL-CEC-6600
	CE 6600S	1000	0113	Z-DL-CEC-6600S
	CE 6602	1000	0113	Z-DL-CEC-6602
	CE 6603	1000	0113	Z-DL-CEC-6603
	CE 7200	1000	0113	Z-DL-CEC-7200
	CE 8020	1000	0113	Z-DL-CEC-8020
	CE 9020	1000	0113	Z-DL-CEC-9020
	CE 9050	1000	0113	Z-DL-CEC-9050
	CE 9080	1000	0113	Z-DL-CEC-9080
CE 9090	1000	0113	Z-DL-CEC-9090	
Ciba-Corning	UV 875	1000	0101	Z-DL-CIB-875
Coleman	55	1000	0109	Z-DL-COL-55
	124	1000	0109	Z-DL-COL-124
	550	1000	0109	Z-DL-COL-550
	552	1000	0109	Z-DL-COL-552
Colera	See Hitachi			
Columbia Scientific	SA700	1000	0123	Z-DL-COU-700
Dionex	DAD320	2000	0059	Z-DL-DIO-DAD320
	DAD340	2000	0059	Z-DL-DIO-DAD340
	DAD340S	2000	0059	Z-DL-DIO-DAD340S

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Dionex	DAD3000	2000	0098	Z-DL-DIO-DAD3000
	DSA-1	1000	0091	Z-DL-DIO-DSA
	Durum	1000	0033	Z-DL-DIO-DUR
	MWD3000	2000	0098	Z-DL-DIO-MWD3000
	Ultima	1000	0130	Z-DL-DIO-ULT
	UVD160	2000	0059	Z-DL-DIO-UVD160
	UVD170	2000	0059	Z-DL-DIO-UVD170
	UVD170U	2000	0059	Z-DL-DIO-UVD170U
	UVD320	2000	0059	Z-DL-DIO-UVD320
	UVD340	2000	0059	Z-DL-DIO-UVD340
	UVD340U	2000	0059	Z-DL-DIO-UVD340U
	UVD3000	2000	0098	Z-DL-DIO-UVD3000
	VDM-1	1000	0091	Z-DL-DIO-VDM1
Dupont	825	1000	0029	Z-DL-DUP-825
	837	1000	0033	Z-DL-DUP-837
	850	1000	0029	Z-DL-DUP-850
Dynamax	UV-C	1000	0091	Z-DL-DYN-UVC
	UV-D11	1000	0091	Z-DL-DYN-UVD
	UV-M	1000	0091	Z-DL-DYN-UVM
EM Science	See Hitachi			
Eppendorf	See Biotronic			
ERC	See Erma			
Erma	ERC 7210	1000	0029	Z-DL-ERC-7210
	ERC 7211	1000	0029	Z-DL-ERC-7211
Femto	700	1000	0056	Z-DL-FEM-700
	700Plus	1000	0056	Z-DL-FEM-700P
	700S	1000	0056	Z-DL-FEM-700S
	800XL	1000	0056	Z-DL-FEM-800XL
GAT	LCD 500	1000	0091	Z-DL-GAT-500
	LCD 502	1000	0091	Z-DL-GAT-502
	LCD 503	1000	0091	Z-DL-GAT-503
	LCD 550	1000	0091	Z-DL-GAT-550
GBC	All AAS Instruments	1000	0137	Z-DL-GBC-AAS
	LC 1200	1000	0029	Z-DL-GBC-LC1200

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
GBC	LC 1205	1000	0091	Z-DL-GBC-1205
	LC 1206	1000	0091	Z-DL-GBC-1206
	LC 1210	1000	0091	Z-DL-GBC-1210
	UV VIS 918	1000	0137	Z-DL-GBC-918
GE Healthcare	See Pharmacia			
Gilford	200	1000	0103	Z-DL-GIL-200
	220	1000	0103	Z-DL-GIL-220
	222	1000	0103	Z-DL-GIL-222
	230	1000	0103	Z-DL-GIL-230
	240	1000	0103	Z-DL-GIL-240
	250	1000	0103	Z-DL-GIL-250
	252	1000	0103	Z-DL-GIL-252
	260	1000	0103	Z-DL-GIL-260
	2000	1000	0103	Z-DL-GIL-2000
	2400	1000	0103	Z-DL-GIL-2400
	2600	1000	0103	Z-DL-GIL-2600
	Response	1000	0029	Z-DL-GIL-RES
Gilson	112	1000	0103	Z-DL-GIS-112
	115	1000	0002	Z-DL-GIS-115
	116	1000	0002	Z-DL-GIS-116
	117	1000	0002	Z-DL-GIS-117
	118	1000	0041	Z-DL-GIS-118
	119	1000	0041	Z-DL-GIS-119
	151	1000	0041	Z-DL-GIS-151
	152	1000	0041	Z-DL-GIS-152
	153	1000	0041	Z-DL-GIS-153
	155	1000	0041	Z-DL-GIS-155
	156 dual	1000	0041	Z-DL-GIS-156
	160 Diode Array	1000	0041	Z-DL-GIS-160
	170 Diode Array	1000	0041	Z-DL-GIS-170
785	1000	0007	Z-DL-GIS-785	
Gynkotek	See Dionex			
Hach	DR/4000U	1000	0024	Z-DL-HAC-4000
Hewlett Packard	See Agilent Technologies			

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Hitachi	All Models EM Science	1000	0030	Z-DL-HIA-EMS
	100-10	1000	0029	Z-DL-HIA-100-10
	100-30	1000	0029	Z-DL-HIA-100-30
	100-40	1000	0029	Z-DL-HIA-100-40
	100-50	1000	0029	Z-DL-HIA-100-50
	100-60	1000	0029	Z-DL-HIA-100-60
	124	1000	0029	Z-DL-HIA-124
	139	1000	0029	Z-DL-HIA-139
	150-20	1000	0133	Z-DL-HIA-150
	181	1000	0133	Z-DL-HIA-181
	200	1000	0133	Z-DL-HIA-200
	220	1000	0133	Z-DL-HIA-220
	220A	1000	0133	Z-DL-HIA-220A
	300	1000	0133	Z-DL-HIA-300
	320	1000	0030	Z-DL-HIA-320
	329	1000	0030	Z-DL-HIA-329
	330	1000	0133	Z-DL-HIA-330
	330LC	1000	0133	Z-DL-HIA-330LC
	340	1000	0133	Z-DL-HIA-340
	556	1000	0133	Z-DL-HIA-556
	557	1000	0133	Z-DL-HIA-557
	655 A22	1000	0133	Z-DL-HIA-655
	2000	1000	0133	Z-DL-HIA-2000
	3000	1000	0133	Z-DL-HIA-3000
	3200	1000	0133	Z-DL-HIA-3200
	4000	1000	0133	Z-DL-HIA-4000
	L2455 DAD	1000	0043	Z-DL-HIA-L2455
	L2500	1000	0063	Z-DL-HIA-L2500
	L3000	1000	0063	Z-DL-HIA-L3000
	L4000	1000	0063	Z-DL-HIA-L4000
	L4200	1000	0063	Z-DL-HIA-L4200
L4225	1000	0063	Z-DL-HIA-L4225	
L4250	1000	0063	Z-DL-HIA-L4250	
L4500	1000	0063	Z-DL-HIA-L4500	

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Hitachi	L4720	1000	0063	Z-DL-HIA-L4720
	L7400	1000	0043	Z-DL-HIA-L7400
	L7420	1000	0043	Z-DL-HIA-L7420
	L7450	1000	0043	Z-DL-HIA-L7450
	L7455 DAD	1000	0043	Z-DL-HIA-L7455
	U1000	1000	0133	Z-DL-HIA-U1000
	U1100	1000	0133	Z-DL-HIA-U1100
	U1500	1000	0133	Z-DL-HIA-U1500
	U1800	1000	0144	Z-DL-HIA-U1800
	U2000	1000	0133	Z-DL-HIA-U2000
	U2001	1000	0133	Z-DL-HIA-U2001
	U2800	1000	0144	Z-DL-HIA-U2800
	U3010	1000	0133	Z-DL-HIA-U3010
	U3210	1000	0133	Z-DL-HIA-U3210
	U3310	1000	0133	Z-DL-HIA-U3310
	U3410	1000	0133	Z-DL-HIA-U3410
	U3510	1000	0133	Z-DL-HIA-U3510
	U4001	1000	0133	Z-DL-HIA-U4001
	U4010	1000	0133	Z-DL-HIA-U4010
	UL1100	1000	0133	Z-DL-HIA-UL1100
Hi-Tech	See Scientific Systems, Inc.			
IBM	LC Detectors	1000	0031	Z-DL-IBM-LC
	LC9523	1000	0028	Z-DL-IBM-LC9523
	LC9563	1000	0028	Z-DL-IBM-LC9563
ICI	See GBC			
IFCO	S500	1000	0091	Z-DL-IFC-500
Instrument SA	JY-201	1000	0033	Z-DL-ISA-201
Jasco	1570	1000	0101	Z-DL-JAS-1570
	1575	1000	0101	Z-DL-JAS-1575
	870	1000	0101	Z-DL-JAS-870
	875	1000	0101	Z-DL-JAS-875
	UV975A	1000	0101	Z-DL-JAS-975A
	Uvidec 4D	1000	0109	Z-DL-JAS-UVI4D
Jobin Yvon	Monospec 103	1000	0028	Z-DL-JOB-MSP103

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Knauer	2151	1000	0129	Z-DL-KNA-2151
	8700	1000	0129	Z-DL-KNA-8700
	9700	1000	0129	Z-DL-KNA-9700
	Wellchrom K-2000	1000	0130	Z-DL-KNA-WCHRK2000
	Wellchrom K-2001	1000	0130	Z-DL-KNA-WCHRK2001
	Wellchrom K-2500	1000	0130	Z-DL-KNA-WCHRK2500
	Wellchrom K-2501	1000	0130	Z-DL-KNA-WCHRK2501
	Wellchrom K-2600	1000	0130	Z-DL-KNA-WCHRK2600
Kontron	330	1000	0033	Z-DL-KON-330
	332	1000	0054	Z-DL-KON-332
	335	2000	0051	Z-DL-KON-335
	430	1000	0054	Z-DL-KON-430
	430A	2000	0051	Z-DL-KON-430A
	432	1000	0054	Z-DL-KON-432
	433	1000	0054	Z-DL-KON-433
	440 DAD	1000	0011	Z-DL-KON-440
	535	2000	0051	Z-DL-KON-535
	535 DAD	2000	0051	Z-DL-KON-535DAD
	540 DAD UV/Vis	2000	0050	Z-DL-KON-540
	540+ DAD UV/Vis	2000	0050	Z-DL-KON-540+
	545V DAD UV/Vis	2000	0050	Z-DL-KON-545V
	710	1000	0037	Z-DL-KON-710
	715	1000	0037	Z-DL-KON-715
	720LC	1000	0010	Z-DL-KON-720
	810	1000	0037	Z-DL-KON-810
	820	1000	0037	Z-DL-KON-820
	860	1000	0037	Z-DL-KON-860
	Uvikon 430	1000	0054	Z-DL-KON-UVI430
	Uvikon 432	1000	0054	Z-DL-KON-UVI432
	Uvikon 600	1000	0037	Z-DL-KON-UVI600
	Uvikon 700	1000	0037	Z-DL-KON-UVI700
	Uvikon 710	1000	0037	Z-DL-KON-UVI710
Uvikon 720	1000	0037	Z-DL-KON-UVI720	

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Kontron	Uvikon 720LC	1000	0037	Z-DL-KON-UVI720LC
	Uvikon 722	1000	0054	Z-DL-KON-UVI722
	Uvikon 725	1000	0029	Z-DL-KON-UVI725
	Uvikon 800	1000	0037	Z-DL-KON-UVI800
	Uvikon 810	1000	0037	Z-DL-KON-UVI810
	Uvikon 820	1000	0037	Z-DL-KON-UVI820
	Uvikon 860	1000	0037	Z-DL-KON-UVI860
	Uvikon 922	1000	0019	Z-DL-KON-UVI922
	Uvikon 923	1000	0019	Z-DL-KON-UVI923
	Uvikon 930	1000	0019	Z-DL-KON-UVI930
	Uvikon 931	1000	0019	Z-DL-KON-UVI931
	Uvikon 932	1000	0019	Z-DL-KON-UVI932
	Uvikon 933	1000	0019	Z-DL-KON-UVI933
	Uvikon 940	1000	0019	Z-DL-KON-UVI940
	Uvikon 942	1000	0037	Z-DL-KON-UVI942
	Uvikon 943	1000	0037	Z-DL-KON-UVI943
	Uvikon CSA	1000	0040	Z-DL-KON-UVICSA
	Uvikon XL	1000	0040	Z-DL-KON-UVIXL
Uvikon XS	1000	0040	Z-DL-KON-UVIXS	
Kratos	See Applied Biosystems			
LDC-Milton Roy	See Thermo			
Lear Siegler	SM400	1000	0033	Z-DL-LEA-400
	SM700	1000	0033	Z-DL-LEA-700
	SM810	1000	0033	Z-DL-LEA-810
	SM1000	1000	0033	Z-DL-LEA-1000
	SM2020	1000	0033	Z-DL-LEA-2020
Linear	See Thermo			
LKB Biochrom	See Pharmacia			
LKB Pharmacia	See Pharmacia			
LKB Produkter	See Pharmacia			
McPherson	701	1000	0028	Z-DL-MCP-701
	707	1000	0028	Z-DL-MCP-707
Meloy Labs	SA 700	1000	0123	Z-DL-MEL-700

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Merck/Hitachi	See Hitachi			
Micromeritics	785	1000	0028	Z-DL-MIC-785
	786	1000	0028	Z-DL-MIC-786
	787	1000	0112	Z-DL-MIC-787
	788	1000	0112	Z-DL-MIC-788
Milton Roy	See Thermo			
Nippon Jarrel Ash	See Thermo			
Oriel	6316	1000	0029	Z-DL-ORI-6316
	63162	1000	0119	Z-DL-ORI-63162
	63163	1000	0118	Z-DL-ORI-63163
Perceptive Biosystems	See Applied Biosystems			
Perkin Elmer	360	1000	0108	Z-DL-PER-360
	370	1000	0108	Z-DL-PER-370
	372	1000	0108	Z-DL-PER-372
	373	1000	0108	Z-DL-PER-373
	380	1000	0108	Z-DL-PER-380
	460 (AAS)	1000	0108	Z-DL-PER-460
	560	1000	0108	Z-DL-PER-560
	575	1000	0029	Z-DL-PER-575
	603	1000	0108	Z-DL-PER-603
	703	1000	0108	Z-DL-PER-703
	2280	1000	0108	Z-DL-PER-2280
	2380	1000	0108	Z-DL-PER-2380
	4000	1000	0108	Z-DL-PER-4000
	5000	1000	0108	Z-DL-PER-5000
	AAS 2280	1000	0108	Z-DL-PER-AAS2280
	AAS 2380	1000	0108	Z-DL-PER-AAS2380
	AAS 3030(B)	1000	0108	Z-DL-PER-AAS3030B
	AAS 4000	1000	0108	Z-DL-PER-AAS4000
	AAS 5000	1000	0108	Z-DL-PER-AAS5000
	AAS 5100	1000	0108	Z-DL-PER-AAS5100
	Integral 2000	1000	0029	Z-DL-PER-INT2000
Integral 4000	1000	0029	Z-DL-PER-INT4000	
Lambda 1	1000	0029	Z-DL-PER-LAM1	

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Perkin Elmer	Lambda 2	1000	0058	Z-DL-PER-LAM2
	Lambda 3	1000	0029	Z-DL-PER-LAM3
	Lambda 3A	1000	0029	Z-DL-PER-LAM3A
	Lambda 3B	1000	0029	Z-DL-PER-LAM3B
	Lambda 5	1000	0058	Z-DL-PER-LAM5
	Lambda 7	1000	0058	Z-DL-PER-LAM7
	Lambda 9	1000	0058	Z-DL-PER-LAM9
	Lambda 10	1000	0058	Z-DL-PER-LAM10
	Lambda 11	1000	0058	Z-DL-PER-LAM11
	Lambda 12	1000	0058	Z-DL-PER-LAM12
	Lambda 14	1000	0058	Z-DL-PER-LAM14
	Lambda 15	1000	0058	Z-DL-PER-LAM15
	Lambda 16	1000	0058	Z-DL-PER-LAM16
	Lambda 17	1000	0058	Z-DL-PER-LAM17
	Lambda 18	1000	0058	Z-DL-PER-LAM18
	Lambda 19	1000	0058	Z-DL-PER-LAM19
	Lambda 20	1000	0058	Z-DL-PER-LAM20
	Lambda 25	1000	0058	Z-DL-PER-LAM25
	Lambda 35	1000	0058	Z-DL-PER-LAM35
	Lambda 40	1000	0058	Z-DL-PER-LAM40
	Lambda 45	1000	0058	Z-DL-PER-LAM45
	Lambda 800	1000	0058	Z-DL-PER-LAM800
	Lambda 900	1000	0058	Z-DL-PER-LAM900
	Lambda Bio	1000	0058	Z-DL-PER-LAMBIO
	LC55	1000	0029	Z-DL-PER-LC55
	LC55B	1000	0029	Z-DL-PER-LC55B
	LC65B	1000	0029	Z-DL-PER-LC65B
	LC65T	1000	0029	Z-DL-PER-LC65T
	LC75	1000	0029	Z-DL-PER-LC75
	LC85B	1000	0029	Z-DL-PER-LC85B
	LC95	1000	0029	Z-DL-PER-LC95
	LC135	1000	0029	Z-DL-PER-LC135
LC235C	1000	0029	Z-DL-PER-LC235C	
LC480 PDA	1000	0058	Z-DL-PER-LC480	

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Perkin Elmer	M55	1000	0058	Z-DL-PER-M55
	M550	1000	0058	Z-DL-PER-M550
	M550S	1000	0058	Z-DL-PER-M550S
	M551	1000	0058	Z-DL-PER-M551
	M551S	1000	0058	Z-DL-PER-M551S
	M552	1000	0058	Z-DL-PER-M552
	M552-2	1000	0058	Z-DL-PER-M552-2
	M552A	1000	0058	Z-DL-PER-M552A
	M553	1000	0058	Z-DL-PER-M553
	M559	1000	0058	Z-DL-PER-M559
	M559A	1000	0058	Z-DL-PER-M559A
	Series 200 DAD Phase I	1000	0008	Z-DL-PER-200DAD
Pharmacia	2141	1000	0109	Z-DL-PHA-2141
	4050	1000	0109	Z-DL-PHA-4050
	4054	1000	0109	Z-DL-PHA-4054
	TDS (S/N > 205)	1000	0109	Z-DL-PHA-TDS
	Ultraspec + (S/N > 175)	1000	0109	Z-DL-PHA-ULT+
	Ultraspec II (S/N > 6598)	1000	0109	Z-DL-PHA-ULTII
	Ultraspec III	1000	0109	Z-DL-PHA-ULTIII
Phillips	See Unicam			
Postnova Analytics	PN3211	2000	0045	Z-DL-PN3211
	PN3241	1000	0057	Z-DL-PN3241
Pye Unicam	See Unicam			
Rainin	See Dynamax			
Saitron	Monospec B	1000	0033	Z-DL-SAI-MonB
Scientific Systems Inc.	200 UV	1000	0091	Z-DL-SSI-200
	500	1000	0091	Z-DL-SSI-500
	506 UV/vis	1000	0091	Z-DL-SSI-506
	525/201	1000	0091	Z-DL-SSI-525
Severn Analytical	SA6500	1000	0091	Z-DL-SEV-6500
	SA6503	1000	0091	Z-DL-SEV-6503
	SA6504	1000	0091	Z-DL-SEV-6504
	SA6508	1000	0091	Z-DL-SEV-6508
	SA6510	1000	0091	Z-DL-SEV-6510

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Shimadzu	AA-670	1000	0142	Z-DL-SHI-AA670
	AA-670G	1000	0142	Z-DL-SHI-AA670G
	AA-6200	1000	0142	Z-DL-SHI-AA6200
	AA-6300	1000	0142	Z-DL-SHI-AA6300
	AA-6500	1000	0142	Z-DL-SHI-AA6500
	AA-6800	1000	0142	Z-DL-SHI-AA6800
	CS-920	1000	0142	Z-DL-SHI-CS920
	CS-930	1000	0142	Z-DL-SHI-CS930
	CS-9000	1000	0142	Z-DL-SHI-CS9000
	D300L	1000	0142	Z-DL-SHI-D300L
	MPS-2000	1000	0142	Z-DL-SHI-MPS
	LC 3A	1000	0103	Z-DL-SHI-LC3A
	LC 4A	1000	0103	Z-DL-SHI-LC4A
	LC 6A	1000	0103	Z-DL-SHI-LC6A
	SP4	1000	0103	Z-DL-SHI-SP4
	SPD-6A	2000	0053	Z-DL-SHI-SPD6A
	SPD-6AV	2000	0053	Z-DL-SHI-SPD6AV
	SPD-7A	2000	0053	Z-DL-SHI-SPD7A
	SPD-7AV	2000	0053	Z-DL-SHI-SPD7AV
	SPD-10A	2000	0045	Z-DL-SHI-SPD10A
	SPD-10AV	2000	0045	Z-DL-SHI-SPD10AV
	SPD-10AVP	2000	0045	Z-DL-SHI-SPD10AVP
	SPD-10AVVP	2000	0045	Z-DL-SHI-SPD10AVVP
	SPD-20A	2000	0045	Z-DL-SHI-20A
	SPD-20AV	2000	0045	Z-DL-SHI-20AV
	SPD-M10A	1000	0057	Z-DL-SHI-M10A
	SPD-M10AV	1000	0057	Z-DL-SHI-M10AV
	SPD-M10AVP	2000	0045	Z-DL-SHI-M10AVP
SPD-M20A	2000	0045	Z-DL-SHI-M20A	
Softron	See Dionex			
Soma	See Erma			
Speck Analytical	See Thermo			
Spectra Physics	See Thermo			
Spectronic Instruments	See Thermo			

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Spectronic Unicam	See Unicam			
SSI	See Scientific Systems, Inc.			
Suntek Science Instr.	See Scientific Systems, Inc.			
Thermo	200	1000	0067	Z-DL-THE-200
	2000	1000	0067	Z-DL-THE-2000
	3000	1000	0031	Z-DL-THE-3000
	3100	1000	0031	Z-DL-THE-3100
	3200	1000	0031	Z-DL-THE-3200
	4000	1000	0031	Z-DL-THE-4000
	4100	1000	0031	Z-DL-THE-4100
	4200	1000	0031	Z-DL-THE-4200
	5000	1000	0031	Z-DL-THE-5000
	700	1000	0067	Z-DL-THE-700
	710	1000	0067	Z-DL-THE-710
	CE 100	1000	0091	Z-DL-THE-CE100
	CE 1000	1000	0091	Z-DL-THE-CE1000
	CE 2000	1000	0091	Z-DL-THE-CE2000
	CE 500	1000	0091	Z-DL-THE-CE500
	DE 50	1000	0067	Z-DL-THE-DE50
	Focus 2000 High Res	1000	0091	Z-DL-THE-FOC2000
	Focus 2000 HR	1000	0091	Z-DL-THE-FOC2000HR
	Focus	1000	0091	Z-DL-THE-FOC
	Genesis 2	1000	0072	Z-DL-THE-GEN2
	Genesis 2PC	1000	0072	Z-DL-THE-GEN2PC
	Genesis 5	1000	0072	Z-DL-THE-GEN5
	Linear 200	1000	0091	Z-DL-THE-LIN200
	Linear 201	1000	0091	Z-DL-THE-LIN201
	Linear 203	1000	0091	Z-DL-THE-LIN203
	Linear 204	1000	0091	Z-DL-THE-LIN204
	Linear 205	1000	0091	Z-DL-THE-LIN205
	Linear 206	1000	0091	Z-DL-THE-LIN206
	Linear 206PH	1000	0091	Z-DL-THE-LIN206PH
	SA 203	1000	0091	Z-DL-THE-SPA-203
SA 302	1000	0091	Z-DL-THE-SPA-302	

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Thermo	SP100	1000	0091	Z-DL-THE-SP100
	SP200	1000	0091	Z-DL-THE-SP200
	SP770	1000	0080	Z-DL-THE-SP770
	SP8200	1000	0027	Z-DL-THE-SP8200
	SP8400	1000	0027	Z-DL-THE-SP8400
	SP8430	1000	0027	Z-DL-THE-SP8430
	SP8440	1000	0027	Z-DL-THE-SP8440
	SP8450	1000	0027	Z-DL-THE-SP8450
	SP8480	1000	0007	Z-DL-THE-SP8480
	SP8490	1000	0027	Z-DL-THE-SP8490
	SP970	1000	0080	Z-DL-THE-SP970
	Spectrachrom 100	1000	0091	Z-DL-THE-SPE100
	Spectrachrom 200	1000	0091	Z-DL-THE-SPE200
	Spectro Monitor 3200	1000	0067	Z-DL-THE-SM3200
	Spectromonitor D	1000	0031	Z-DL-THE-SPMD
	Spectromonitor III	1000	0031	Z-DL-THE-SPMIII
	Spectronic 1001	1000	0067	Z-DL-THE-SP1001
	Spectronic 1001 plus	1000	0067	Z-DL-THE-SP1001P
	Spectronic 1201	1000	0067	Z-DL-THE-SP1201
	Spectronic 21	1000	0067	Z-DL-THE-SPE21
	Spectronic 21D	1000	0067	Z-DL-THE-SPE21D
	Spectronic 501	1000	0067	Z-DL-THE-SPE501
	Spectronic 601	1000	0067	Z-DL-THE-SPE601
	UV 100	1000	0091	Z-DL-THE-UV100
	UV 1000	1000	0091	Z-DL-THE-UV1000
	UV 150	1000	0091	Z-DL-THE-UV150
	UV 200	1000	0091	Z-DL-THE-UV200
	UV 2000	1000	0091	Z-DL-THE-UV2000
	UV 3000	1000	0091	Z-DL-THE-UV3000
	UV 6000	1000	0020	Z-DL-THE-UV6000
	UV 6000LP	1000	0020	Z-DL-THE-UV6000LP
	Thermo Finnigan	See Thermo		
Thermo Separation	See Unicam			
TJA Solution	See Thermo			

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Tosoh	8010	1000	0022	Z-DL-TOH-8010
	8011	1000	0022	Z-DL-TOH-8011
Tracor	D970A	1000	0028	Z-DL-TRA-970
Unicam	4225	1000	0091	Z-DL-UNI-4225
	Aquamate	1000	0013	Z-DL-UNI-AQUA
	Evolution 600	1000	0093	Z-DL-UNI-EVO
	Helios II	1000	0013	Z-DL-UNI-HELII
	Helios Alpha, Beta	1000	0013	Z-DL-UNI-HELA
	Helios Gamma, Delta	1000	0013	Z-DL-UNI-HELG
	Helios Epsilon	1000	0013	Z-DL-UNI-HELE
	SP 7500	1000	0067	Z-DL-UNI-SP7500
	UV 1	1000	0013	Z-DL-UNI-UV1
	UV1-100	1000	0013	Z-DL-UNI-UV1-100
	UV 2	1000	0013	Z-DL-UNI-UV2
	UV 3	1000	0013	Z-DL-UNI-UV3
	UV 4	1000	0013	Z-DL-UNI-UV4
	UV 300	1000	0013	Z-DL-UNI-UV300
	UV 500	1000	0013	Z-DL-UNI-UV500
	UV 550	1000	0013	Z-DL-UNI-UV550
Varian	75 Series (AAS)	1000	0112	Z-DL-VAR-75
	2550	1000	0101	Z-DL-VAR-2550
	9050	1000	0048	Z-DL-VAR-9050
	AA 275	1000	0112	Z-DL-VAR-AA275
	AA 300	1000	0112	Z-DL-VAR-AA300
	AA 400	1000	0112	Z-DL-VAR-AA400
	AA 475	1000	0112	Z-DL-VAR-AA475
	AA 775	1000	0112	Z-DL-VAR-AA775
	AA 875	1000	0112	Z-DL-VAR-AA875
	AA 975	1000	0112	Z-DL-VAR-AA975
	AA 1275	1000	0112	Z-DL-VAR-AA1275
	AA 1475	1000	0112	Z-DL-VAR-AA1475
	AA 3000	1000	0112	Z-DL-VAR-AA3000
	Cary 1	1000	0112	Z-DL-VAR-CARY1
	Cary 50	1000	0112	Z-DL-VAR-CARY50

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Varian	Cary 100	1000	0112	Z-DL-VAR-CARY100
	Cary 210	1000	0033	Z-DL-VAR-CARY210
	Cary 219 late	1000	0033	Z-DL-VAR-CARY219
	Cary 2200	1000	0033	Z-DL-VAR-CARY2200
	Cary 2300	1000	0033	Z-DL-VAR-CARY2300
	Prostar 310	1000	0048	Z-DL-VAR-PRO310
	Prostar 340	1000	0091	Z-DL-VAR-PRO340
	Prostar 345	1000	0091	Z-DL-VAR-PRO345
	Spectra AA 10	1000	0112	Z-DL-VAR-SPEC10
	Spectra AA 20	1000	0112	Z-DL-VAR-SPEC20
	Spectra AA 220 FS	1000	0112	Z-DL-VAR-SPEC220
	Spectra AA 30	1000	0112	Z-DL-VAR-SPEC30
	Spectra AA 40	1000	0112	Z-DL-VAR-SPEC40
	Spectra AA 880	1000	0112	Z-DL-VAR-SPEC880
	UV 50	1000	0048	Z-DL-VAR-UV50
	UV 100	1000	0048	Z-DL-VAR-UV100
	UV 200	1000	0048	Z-DL-VAR-UV200
	UV Superscan	1000	0112	Z-DL-VAR-SUPSCAN
	Vista 5000	1000	0048	Z-DL-VAR-VIST5000
	Vista 5500	1000	0048	Z-DL-VAR-VIST5500
Waters	480 LC	1000	0031	Z-DL-WAT-480LC
	481	1000	0031	Z-DL-WAT-481
	481 LC	1000	0031	Z-DL-WAT-481LC
	484	1000	0039	Z-DL-WAT-484
	486	1000	0134	Z-DL-WAT-486
	990	1000	0011	Z-DL-WAT-990
	991	1000	0011	Z-DL-WAT-991
	994 PDA	1000	0011	Z-DL-WAT-994
	996 PDA	1000	0001	Z-DL-WAT-996
	2996 PDA	1000	0001	Z-DL-WAT-2996PDA
	2996 PDA Longlife	2000	0052	Z-DL-WAT-2996PDALL
	Lambda Max	1000	0031	Z-DL-WAT-LAM
	Zeiss	M500	1000	0035
PM 2		1000	0061	Z-DL-ZEI-PM2

Instrument Manufacturer	Instrument Model	Lifetime/h	Picture #	Part #
Zeiss	PM 4	1000	0061	Z-DL-ZEI-PM4
	PM 6	1000	0061	Z-DL-ZEI-PM6
	PMQ II	1000	0061	Z-DL-ZEI-PMQII
	PMQ III	1000	0061	Z-DL-ZEI-PMQIII
	S10	1000	0035	Z-DL-ZEI-S10
	S5UV	1000	0035	Z-DL-ZEI-S5UV
	Spekol 1200	1000	0035	Z-DL-ZEI-SPE1200
	Spekol 1300	1000	0035	Z-DL-ZEI-SPE1300
	Spekol 1500	1000	0035	Z-DL-ZEI-SPE1500
	Spekord 200	1000	0035	Z-DL-ZEI-SPE200
	Spekord 205	1000	0035	Z-DL-ZEI-SPE205
	Spekord 210	1000	0035	Z-DL-ZEI-SPE210
	Spekord 250	1000	0035	Z-DL-ZEI-SPE250
	Spekord 40/50	1000	0035	Z-DL-ZEI-SPE40
	Spekord S100	1000	0035	Z-DL-ZEI-SPE5100
UV/vis	1000	0035	Z-DL-ZEI-UV	

Tungsten Lamps

Instrument Manufacturer	Instrument Model	Picture No	Part #
Agilent Technologies	1100 DAD; G1103-60001	0075	Z-DL-AG-1100DADvis
	1100 MWD; G1103-60001	0075	Z-DL-AG-1100MWDvis
	1200 DAD; G1103-60001	0075	Z-DL-AG-1200DADvis
	1200 MWD; G1103-60001	0075	Z-DL-AG-1200MWDvis
	8453; G1103-60001	0075	Z-DL-AG-8453vis
Beckmann	166	0005	Z-DL-BEC-166vis
	DU600	0005	Z-DL-BEC-DU600vis
	DU640	0005	Z-DL-BEC-DU640vis
	DU650	0005	Z-DL-BEC-DU650vis
	DU70	0005	Z-DL-BEC-DU70vis
	DU700	0005	Z-DL-BEC-DU700vis
	DU7000	0005	Z-DL-BEC-DU7000vis
Camspec	DZA	0006	Z-DL-CAS-DZAVIS
Cecil Instruments	200	0009	Z-DL-CEC-200vis
	2000	0009	Z-DL-CEC-2000vis
	272	0009	Z-DL-CEC-272vis
	2272	0009	Z-DL-CEC-2272vis
	393	0009	Z-DL-CEC-393vis
	3000 Series	0009	Z-DL-CEC-3000vis
Kontron	9XX Series	0012	Z-DL-KON-9XXvis
	922	0012	Z-DL-KON-922vis
	923	0012	Z-DL-KON-923vis
	930	0012	Z-DL-KON-930vis
	931	0012	Z-DL-KON-931vis
	941	0012	Z-DL-KON-941vis
	942	0012	Z-DL-KON-942vis
	943	0012	Z-DL-KON-943vis
Perkin Elmer	Lambda 1	0017	Z-DL-PER-LAM1vis
	Lambda 2	0017	Z-DL-PER-LAM2vis
	Lambda 2S	0017	Z-DL-PER-LAM2Svis
	Lambda 3	0017	Z-DL-PER-LAM3vis

Instrument Manufacturer	Instrument Model	Picture No	Part #
Perkin Elmer	Lambda 5	0017	Z-DL-PER-LAM5vis
	Lambda 7	0017	Z-DL-PER-LAM7vis
	Lambda 9	0017	Z-DL-PER-LAM9vis
	Lambda 10	0017	Z-DL-PER-LAM10vis
	Lambda 11	0017	Z-DL-PER-LAM11vis
	Lambda 12	0017	Z-DL-PER-LAM12vis
	Lambda 14	0017	Z-DL-PER-LAM14vis
	Lambda 15	0017	Z-DL-PER-LAM15vis
	Lambda 16	0017	Z-DL-PER-LAM16vis
	Lambda 17	0017	Z-DL-PER-LAM17vis
	Lambda 18	0017	Z-DL-PER-LAM18vis
	Lambda 19	0017	Z-DL-PER-LAM19vis
	Lambda 20	0017	Z-DL-PER-LAM20vis
	Lambda 40	0017	Z-DL-PER-LAM40vis
	Lambda 800	0017	Z-DL-PER-LAM800vis
	Lambda 900	0017	Z-DL-PER-LAM900vis
	Lambda Bio	0017	Z-DL-PER-LAMBIOvis
Pharmacia	2000 Series	0034	Z-DL-PHA-2000vis
	3000 Series	0034	Z-DL-PHA-3000vis
	Ultraspec Series	0034	Z-DL-PHA-ULTRAvis
Postnova Analytics	PN3241	0032	Z-DL-PN3241vis
	PN3150		Z-DL-PN3150vis
Shimadzu	UV/VIS	0032	Z-DL-SHI-UVvis
	1205	0012	Z-DL-SHI-1205vis
Thermo	Aquamate	0034	Z-DL-THE-AQUAvis
	UV1-100	0034	Z-DL-THE-UV1vis
Unicam	5625	0042	Z-DL-UNI-5625vis
	5675VIS	0042	Z-DL-UNI-5675vis
	8600	0042	Z-DL-UNI-8600vis
	8625	0042	Z-DL-UNI-8625vis
	8675VIS	0042	Z-DL-UNI-8675vis
	8700 Series	0042	Z-DL-UNI-8700vis
	8800 Series	0042	Z-DL-UNI-8800vis
	Helios Delta	0034	Z-DL-UNI-HELDvis

Instrument Manufacturer	Instrument Model	Picture No	Part #
Unicam	Helios Gamma	0034	Z-DL-UNI-HELGvis
	UV1	0038	Z-DL-UNI-UV1vis
	UV2	0038	Z-DL-UNI-UV2vis
	UV3	0038	Z-DL-UNI-UV3vis
	UV4	0038	Z-DL-UNI-UV4vis

Hollow Cathode Lamps

Single Elements

30

Elements	Picture No	Product Description	Part #
Aluminium - Al	0149	37 mm Standard	Z-DL-HCL-1Al-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Al-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Al-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Al-04
	0153	50 mm Standard	Z-DL-HCL-1Al-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Al-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Al-07
Antimony - Sb	0149	37 mm Standard	Z-DL-HCL-1Sb-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Sb-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Sb-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Sb-04
	0153	50 mm Standard	Z-DL-HCL-1Sb-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Sb-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Sb-07
Arsenic - As	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1As-07
	0149	37 mm Standard	Z-DL-HCL-1As-01
	0151	37 mm Varian Coded	Z-DL-HCL-1As-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1As-03
	0152	37 mm Self Reversal	Z-DL-HCL-1As-04
	0153	50 mm Standard	Z-DL-HCL-1As-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1As-06
Barium - Ba	0149	37 mm Standard	Z-DL-HCL-1Ba-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ba-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ba-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ba-04
	0153	50 mm Standard	Z-DL-HCL-1Ba-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ba-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ba-07
Beryllium - Be	0149	37 mm Standard	Z-DL-HCL-1Be-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Be-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Be-03

Elements	Picture No	Product Description	Part #
Beryllium - Be	0152	37 mm Self Reversal	Z-DL-HCL-1Be-04
	0153	50 mm Standard	Z-DL-HCL-1Be-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Be-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Be-07
Bismut - Bi	0149	37 mm Standard	Z-DL-HCL-1Bi-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Bi-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Bi-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Bi-04
	0153	50 mm Standard	Z-DL-HCL-1Bi-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Bi-06
Boron - B	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Bi-07
	0149	37 mm Standard	Z-DL-HCL-1B-01
	0151	37 mm Varian Coded	Z-DL-HCL-1B-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1B-03
	0152	37 mm Self Reversal	Z-DL-HCL-1B-04
	0153	50 mm Standard	Z-DL-HCL-1B-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1B-06
Cadmium - Cd	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1B-07
	0149	37 mm Standard	Z-DL-HCL-1Cd-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Cd-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Cd-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Cd-04
	0153	50 mm Standard	Z-DL-HCL-1Cd-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Cd-06
Caesium - Cs	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Cd-07
	0149	37 mm Standard	Z-DL-HCL-1Cs-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Cs-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Cs-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Cs-04
	0153	50 mm Standard	Z-DL-HCL-1Cs-05
Calcium - Ca	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Cs-06
	0149	37 mm Standard	Z-DL-HCL-1Ca-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ca-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ca-03

Elements	Picture No	Product Description	Part #
Calcium - Ca	0152	37 mm Self Reversal	Z-DL-HCL-1Ca-04
	0153	50 mm Standard	Z-DL-HCL-1Ca-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ca-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ca-07
Cerium - Ce	0149	37 mm Standard	Z-DL-HCL-1Ce-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ce-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ce-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ce-04
	0153	50 mm Standard	Z-DL-HCL-1Ce-05
Cobalt - Co	0149	37 mm Standard	Z-DL-HCL-1Co-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Co-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Co-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Co-04
	0153	50 mm Standard	Z-DL-HCL-1Co-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Co-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Co-07
Copper - Cu	0149	37 mm Standard	Z-DL-HCL-1Cu-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Cu-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Cu-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Cu-04
	0153	50 mm Standard	Z-DL-HCL-1Cu-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Cu-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Cu-07
Chromium - Cr	0149	37 mm Standard	Z-DL-HCL-1Cr-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Cr-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Cr-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Cr-04
	0153	50 mm Standard	Z-DL-HCL-1Cr-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Cr-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Cr-07
Dysprosium - Dy	0149	37 mm Standard	Z-DL-HCL-1Dy-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Dy-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Dy-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Dy-04

Elements	Picture No	Product Description	Part #
Dysprosium - Dy	0153	50 mm Standard	Z-DL-HCL-1Dy-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Dy-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Dy-07
Erbium - Er	0149	37 mm Standard	Z-DL-HCL-1Er-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Er-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Er-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Er-04
	0153	50 mm Standard	Z-DL-HCL-1Er-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Er-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Er-07
Europium - Eu	0149	37 mm Standard	Z-DL-HCL-1Eu-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Eu-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Eu-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Eu-04
	0153	50 mm Standard	Z-DL-HCL-1Eu-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Eu-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Eu-07
Gadolinium - Gd	0149	37 mm Standard	Z-DL-HCL-1Gd-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Gd-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Gd-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Gd-04
	0153	50 mm Standard	Z-DL-HCL-1Gd-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Gd-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Gd-07
Gallium - Ga	0149	37 mm Standard	Z-DL-HCL-1Ga-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ga-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ga-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ga-04
	0153	50 mm Standard	Z-DL-HCL-1Ga-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ga-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ga-07
Germanium - Ge	0149	37 mm Standard	Z-DL-HCL-1Ge-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ge-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ge-03

Elements	Picture No	Product Description	Part #
Germanium - Ge	0152	37 mm Self Reversal	Z-DL-HCL-1Ge-04
	0153	50 mm Standard	Z-DL-HCL-1Ge-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ge-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ge-07
Gold - Au	0149	37 mm Standard	Z-DL-HCL-1Au-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Au-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Au-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Au-04
	0153	50 mm Standard	Z-DL-HCL-1Au-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Au-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Au-07
Hafnium - Hf	0149	37 mm Standard	Z-DL-HCL-1Hf-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Hf-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Hf-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Hf-04
	0153	50 mm Standard	Z-DL-HCL-1Hf-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Hf-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Hf-07
Holmium - Ho	0149	37 mm Standard	Z-DL-HCL-1Ho-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ho-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ho-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ho-04
	0153	50 mm Standard	Z-DL-HCL-1Ho-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ho-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ho-07
Indium - In	0149	37 mm Standard	Z-DL-HCL-1In-01
	0151	37 mm Varian Coded	Z-DL-HCL-1In-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1In-03
	0152	37 mm Self Reversal	Z-DL-HCL-1In-04
	0153	50 mm Standard	Z-DL-HCL-1In-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1In-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1In-07
Iridium - Ir	0149	37 mm Standard	Z-DL-HCL-1Ir-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ir-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ir-03

Elements	Picture No	Product Description	Part #
Iridium - Ir	0152	37 mm Self Reversal	Z-DL-HCL-1Ir-04
	0153	50 mm Standard	Z-DL-HCL-1Ir-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ir-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ir-07
Iron - Fe	0149	37 mm Standard	Z-DL-HCL-1Fe-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Fe-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Fe-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Fe-04
	0153	50 mm Standard	Z-DL-HCL-1Fe-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Fe-06
Lanthan - La	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Fe-07
	0149	37 mm Standard	Z-DL-HCL-1La-01
	0151	37 mm Varian Coded	Z-DL-HCL-1La-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1La-03
	0152	37 mm Self Reversal	Z-DL-HCL-1La-04
	0153	50 mm Standard	Z-DL-HCL-1La-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1La-06
Lead - Pb	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1La-07
	0149	37 mm Standard	Z-DL-HCL-1Pb-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Pb-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Pb-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Pb-04
	0153	50 mm Standard	Z-DL-HCL-1Pb-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Pb-06
Lithium - Li	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Pb-07
	0149	37 mm Standard	Z-DL-HCL-1Li-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Li-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Li-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Li-04
	0153	50 mm Standard	Z-DL-HCL-1Li-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Li-06
Lutetium - Lu	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Li-07
	0149	37 mm Standard	Z-DL-HCL-1Lu-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Lu-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Lu-03

Elements	Picture No	Product Description	Part #
Lutetium - Lu	0152	37 mm Self Reversal	Z-DL-HCL-1Lu-04
	0153	50 mm Standard	Z-DL-HCL-1Lu-05
Magnesium - Mg	0149	37 mm Standard	Z-DL-HCL-1Mg-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Mg-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Mg-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Mg-04
	0153	50 mm Standard	Z-DL-HCL-1Mg-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Mg-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Mg-07
Manganese - Mn	0149	37 mm Standard	Z-DL-HCL-1Mn-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Mn-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Mn-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Mn-04
	0153	50 mm Standard	Z-DL-HCL-1Mn-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Mn-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Mn-07
Mercury - Hg	0149	37 mm Standard	Z-DL-HCL-1Hg-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Hg-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Hg-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Hg-04
	0153	50 mm Standard	Z-DL-HCL-1Hg-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Hg-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Hg-07
Molybdenum - Mo	0149	37 mm Standard	Z-DL-HCL-1Mo-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Mo-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Mo-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Mo-04
	0153	50 mm Standard	Z-DL-HCL-1Mo-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Mo-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Mo-07
Neodymium - Nd	0149	37 mm Standard	Z-DL-HCL-1Nd-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Nd-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Nd-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Nd-04

Elements	Picture No	Product Description	Part #
Neodymium - Nd	0153	50 mm Standard	Z-DL-HCL-1Nd-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Nd-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Nd-07
Nickel - Ni	0149	37 mm Standard	Z-DL-HCL-1Ni-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ni-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ni-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ni-04
	0153	50 mm Standard	Z-DL-HCL-1Ni-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ni-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ni-07
Niob - Nb	0149	37 mm Standard	Z-DL-HCL-1Nb-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Nb-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Nb-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Nb-04
	0153	50 mm Standard	Z-DL-HCL-1Nb-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Nb-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Nb-07
Osmium - Os	0149	37 mm Standard	Z-DL-HCL-1Os-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Os-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Os-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Os-04
	0153	50 mm Standard	Z-DL-HCL-1Os-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Os-06
Palladium - Pd	0149	37 mm Standard	Z-DL-HCL-1Pd-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Pd-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Pd-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Pd-04
	0153	50 mm Standard	Z-DL-HCL-1Pd-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Pd-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Pd-07
Phosphorous - P	0149	37 mm Standard	Z-DL-HCL-1P-01
	0151	37 mm Varian Coded	Z-DL-HCL-1P-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1P-03
	0152	37 mm Self Reversal	Z-DL-HCL-1P-04

Elements	Picture No	Product Description	Part #
Phosphorous - P	0153	50 mm Standard	Z-DL-HCL-1P-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1P-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1P-07
Platinum - Pt	0149	37 mm Standard	Z-DL-HCL-1Pt-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Pt-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Pt-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Pt-04
	0153	50 mm Standard	Z-DL-HCL-1Pt-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Pt-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Pt-07
Potassium - K	0149	37 mm Standard	Z-DL-HCL-1K-01
	0151	37 mm Varian Coded	Z-DL-HCL-1K-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1K-03
	0152	37 mm Self Reversal	Z-DL-HCL-1K-04
	0153	50 mm Standard	Z-DL-HCL-1K-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1K-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1K-07
Praseodymium - Pr	0149	37 mm Standard	Z-DL-HCL-1Pr-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Pr-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Pr-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Pr-04
	0153	50 mm Standard	Z-DL-HCL-1Pr-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Pr-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Pr-07
Rhenium - Re	0149	37 mm Standard	Z-DL-HCL-1Re-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Re-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Re-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Re-04
	0153	50 mm Standard	Z-DL-HCL-1Re-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Re-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Re-07
Rhodium - Rh	0149	37 mm Standard	Z-DL-HCL-1Rh-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Rh-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Rh-03

Elements	Picture No	Product Description	Part #
Rhodium - Rh	0152	37 mm Self Reversal	Z-DL-HCL-1Rh-04
	0153	50 mm Standard	Z-DL-HCL-1Rh-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Rh-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Rh-07
Rubidium - Rb	0149	37 mm Standard	Z-DL-HCL-1Rb-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Rb-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Rb-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Rb-04
	0153	50 mm Standard	Z-DL-HCL-1Rb-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Rb-06
Ruthenium - Ru	0149	37 mm Standard	Z-DL-HCL-1Ru-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ru-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ru-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ru-04
	0153	50 mm Standard	Z-DL-HCL-1Ru-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ru-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ru-07
Samarium - Sm	0149	37 mm Standard	Z-DL-HCL-1Sm-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Sm-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Sm-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Sm-04
	0153	50 mm Standard	Z-DL-HCL-1Sm-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Sm-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Sm-07
Scandium - Sc	0149	37 mm Standard	Z-DL-HCL-1Sc-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Sc-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Sc-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Sc-04
	0153	50 mm Standard	Z-DL-HCL-1Sc-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Sc-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Sc-07
Selen - Se	0149	37 mm Standard	Z-DL-HCL-1Se-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Se-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Se-03

Elements	Picture No	Product Description	Part #
Selen - Se	0152	37 mm Self Reversal	Z-DL-HCL-1Se-04
	0153	50 mm Standard	Z-DL-HCL-1Se-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Se-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Se-07
Silver - Ag	0149	37 mm Standard	Z-DL-HCL-1Ag-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ag-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ag-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ag-04
	0153	50 mm Standard	Z-DL-HCL-1Ag-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ag-06
Silicon - Si	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ag-07
	0149	37 mm Standard	Z-DL-HCL-1Si-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Si-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Si-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Si-04
	0153	50 mm Standard	Z-DL-HCL-1Si-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Si-06
Sodium - Na	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Si-07
	0149	37 mm Standard	Z-DL-HCL-1Na-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Na-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Na-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Na-04
	0153	50 mm Standard	Z-DL-HCL-1Na-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Na-06
Strontium - Sr	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Na-07
	0149	37 mm Standard	Z-DL-HCL-1Sr-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Sr-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Sr-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Sr-04
	0153	50 mm Standard	Z-DL-HCL-1Sr-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Sr-06
Tantalum - Ta	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Sr-07
	0149	37 mm Standard	Z-DL-HCL-1Ta-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ta-02

Elements	Picture No	Product Description	Part #
Tantalum - Ta	0150	37 mm Unicam Coded	Z-DL-HCL-1Ta-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ta-04
	0153	50 mm Standard	Z-DL-HCL-1Ta-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ta-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ta-07
Tellurium - Te	0149	37 mm Standard	Z-DL-HCL-1Te-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Te-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Te-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Te-04
	0153	50 mm Standard	Z-DL-HCL-1Te-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Te-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Te-07
Terbium - Tb	0149	37 mm Standard	Z-DL-HCL-1Tb-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Tb-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Tb-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Tb-04
	0153	50 mm Standard	Z-DL-HCL-1Tb-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Tb-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Tb-07
Thallium - Tl	0149	37 mm Standard	Z-DL-HCL-1TI-01
	0151	37 mm Varian Coded	Z-DL-HCL-1TI-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1TI-03
	0152	37 mm Self Reversal	Z-DL-HCL-1TI-04
	0153	50 mm Standard	Z-DL-HCL-1TI-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1TI-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1TI-07
Thorium - Th	0149	37 mm Standard (UV Glass/Neon)	Z-DL-HCL-1Th-01
	0149	37 mm Standard (UV Glass/Argon)	Z-DL-HCL-1Th-02
	0149	37 mm Standard (Quartz/Argon)	Z-DL-HCL-1Th-03
	0153	50 mm Standard	Z-DL-HCL-1Th-04
Thulium - Tm	0149	37 mm Standard	Z-DL-HCL-1Tm-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Tm-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Tm-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Tm-04

Elements	Picture No	Product Description	Part #
Thulium - Tm	0153	50 mm Standard	Z-DL-HCL-1Tm-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Tm-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Tm-07
Tin - Sn	0149	37 mm Standard	Z-DL-HCL-1Sn-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Sn-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Sn-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Sn-04
	0153	50 mm Standard	Z-DL-HCL-1Sn-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Sn-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Sn-07
Titan - Ti	0149	37 mm Standard	Z-DL-HCL-1Ti-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Ti-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Ti-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Ti-04
	0153	50 mm Standard	Z-DL-HCL-1Ti-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Ti-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Ti-07
Tungsten - W	0149	37 mm Standard	Z-DL-HCL-1W-01
	0151	37 mm Varian Coded	Z-DL-HCL-1W-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1W-03
	0152	37 mm Self Reversal	Z-DL-HCL-1W-04
	0153	50 mm Standard	Z-DL-HCL-1W-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1W-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1W-07
Uran - U	0149	37 mm Standard	Z-DL-HCL-1U-01
	0151	37 mm Varian Coded	Z-DL-HCL-1U-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1U-03
	0153	50 mm Standard	Z-DL-HCL-1U-04
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1U-05
Vanadium - V	0149	37 mm Standard	Z-DL-HCL-1V-01
	0151	37 mm Varian Coded	Z-DL-HCL-1V-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1V-03
	0152	37 mm Self Reversal	Z-DL-HCL-1V-04
	0153	50 mm Standard	Z-DL-HCL-1V-05

Elements	Picture No	Product Description	Part #
Vanadium - V	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1V-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1V-07
Ytterbium - Yb	0149	37 mm Standard	Z-DL-HCL-1Yb-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Yb-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Yb-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Yb-04
	0153	50 mm Standard	Z-DL-HCL-1Yb-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Yb-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Yb-07
Yttrium - Y	0149	37 mm Standard	Z-DL-HCL-1Y-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Y-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Y-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Y-04
	0153	50 mm Standard	Z-DL-HCL-1Y-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Y-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Y-07
Zinc - Zn	0149	37 mm Standard	Z-DL-HCL-1Zn-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Zn-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Zn-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Zn-04
	0153	50 mm Standard	Z-DL-HCL-1Zn-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Zn-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Zn-07
Zirkonium - Zr	0149	37 mm Standard	Z-DL-HCL-1Zr-01
	0151	37 mm Varian Coded	Z-DL-HCL-1Zr-02
	0150	37 mm Unicam Coded	Z-DL-HCL-1Zr-03
	0152	37 mm Self Reversal	Z-DL-HCL-1Zr-04
	0153	50 mm Standard	Z-DL-HCL-1Zr-05
	0154	50 mm Perkin Elmer 12 pin Coded	Z-DL-HCL-1Zr-06
	0155	50 mm Perkin Elmer Coded Aanalyst (Lumina)	Z-DL-HCL-1Zr-07
Deuterium - D2	0149	37 mm Standard, Kontinuum (180-380 nm)	Z-DL-HCL-1D2-01
	0151	37 mm Unicam Coded	Z-DL-HCL-1D2-02
	0150	37 mm Varian Coded	Z-DL-HCL-1D2-03

2 Elements

44

Elements	Additional Elements	Picture No	Product Description	Part #
Aluminium - Al	Ca	0149	37 mm Standard	Z-DL-HCL-2Al-01
	Ca	0153	50 mm Standard	Z-DL-HCL-2Al-02
	Mg	0149	37 mm Standard	Z-DL-HCL-2Al-03
	Mg	0150	37 mm Unicam Coded	Z-DL-HCL-2Al-04
	Mg	0153	50 mm Standard	Z-DL-HCL-2Al-05
	Si	0149	37 mm Standard	Z-DL-HCL-2Al-06
	Si	0150	37 mm Unicam Coded	Z-DL-HCL-2Al-07
	Si	0153	50 mm Standard	Z-DL-HCL-2Al-08
	Ti	0149	37 mm Standard	Z-DL-HCL-2Al-09
	Ti	0150	37 mm Unicam Coded	Z-DL-HCL-2Al-10
	Ti	0153	50 mm Standard	Z-DL-HCL-2Al-11
Barium - Ba	Sr	0149	37 mm Standard	Z-DL-HCL-2Ba-01
	Sr	0150	37 mm Unicam Coded	Z-DL-HCL-2Ba-02
	Sr	0153	50 mm Standard	Z-DL-HCL-2Ba-03
Cadmium - Cd	Zn	0149	37 mm Standard	Z-DL-HCL-2Cd-01
	Zn	0150	37 mm Unicam Coded	Z-DL-HCL-2Cd-02
	Zn	0153	50 mm Standard	Z-DL-HCL-2Cd-03
Calcium - Ca	Ba	0149	37 mm Standard	Z-DL-HCL-2Ca-01
	Ba	0150	37 mm Unicam Coded	Z-DL-HCL-2Ca-02
	Ba	0153	50 mm Standard	Z-DL-HCL-2Ca-03
	Mg	0149	37 mm Standard	Z-DL-HCL-2Ca-04
	Mg	0150	37 mm Unicam Coded	Z-DL-HCL-2Ca-05
	Mg	0151	37 mm Varian Coded	Z-DL-HCL-2Ca-06
	Mg	0153	50 mm Standard	Z-DL-HCL-2Ca-07
	Mg	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-2Ca-08
	Mg	0155	50 mm Perkin Elmer Coded Aanalyst	Z-DL-HCL-2Ca-09
	Si	0149	37 mm Standard	Z-DL-HCL-2Ca-10
	Si	0150	37 mm Unicam Coded	Z-DL-HCL-2Ca-11
	Si	0153	50 mm Standard	Z-DL-HCL-2Ca-12
	Sr	0149	37 mm Standard	Z-DL-HCL-2Ca-13
	Sr	0150	37 mm Unicam Coded	Z-DL-HCL-2Ca-14
	Sr	0153	50 mm Standard	Z-DL-HCL-2Ca-15

Elements	Additional Elements	Picture No	Product Description	Part #
Calcium - Ca	Zn	0149	37 mm Standard	Z-DL-HCL-2Ca-16
	Zn	0150	37 mm Unicam Coded	Z-DL-HCL-2Ca-17
	Zn	0153	50 mm Standard	Z-DL-HCL-2Ca-18
	Zn	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-2Ca-19
	Zn	0155	50 mm Perkin Elmer Coded Aanalyst	Z-DL-HCL-2Ca-20
Chromium - Cr	Co	0149	37 mm Standard	Z-DL-HCL-2Cr-01
	Co	0153	50 mm Standard	Z-DL-HCL-2Cr-02
	Cu	0149	37 mm Standard	Z-DL-HCL-2Cr-03
	Cu	0150	37 mm Unicam Coded	Z-DL-HCL-2Cr-04
	Cu	0153	50 mm Standard	Z-DL-HCL-2Cr-05
	Fe	0149	37 mm Standard	Z-DL-HCL-2Cr-06
	Fe	0153	50 mm Standard	Z-DL-HCL-2Cr-07
	Mn	0149	37 mm Standard	Z-DL-HCL-2Cr-08
	Mn	0150	37 mm Unicam Coded	Z-DL-HCL-2Cr-09
	Mn	0153	50 mm Standard	Z-DL-HCL-2Cr-10
	Mo	0149	37 mm Standard	Z-DL-HCL-2Cr-11
	Mo	0150	37 mm Unicam Coded	Z-DL-HCL-2Cr-12
	Mo	0153	50 mm Standard	Z-DL-HCL-2Cr-13
	Ni	0149	37 mm Standard	Z-DL-HCL-2Cr-14
	Ni	0150	37 mm Unicam Coded	Z-DL-HCL-2Cr-15
	Ni	0153	50 mm Standard	Z-DL-HCL-2Cr-16
Cobalt - Co	Cu	0149	37 mm Standard	Z-DL-HCL-2Co-01
	Cu	0150	37 mm Unicam Coded	Z-DL-HCL-2Co-02
	Cu	0153	50 mm Standard	Z-DL-HCL-2Co-03
	Fe	0149	37 mm Standard	Z-DL-HCL-2Co-04
	Fe	0150	37 mm Unicam Coded	Z-DL-HCL-2Co-05
	Fe	0153	50 mm Standard	Z-DL-HCL-2Co-06
	Mn	0149	37 mm Standard	Z-DL-HCL-2Co-07
	Mn	0150	37 mm Unicam Coded	Z-DL-HCL-2Co-08
	Mn	0153	50 mm Standard	Z-DL-HCL-2Co-09
	Mo	0149	37 mm Standard	Z-DL-HCL-2Co-10
	Mo	0150	37 mm Unicam Coded	Z-DL-HCL-2Co-11
	Mo	0153	50 mm Standard	Z-DL-HCL-2Co-12
	Ni	0149	37 mm Standard	Z-DL-HCL-2Co-13

Elements	Additional Elements	Picture No	Product Description	Part #	
Cobalt - Co	Ni	0150	37 mm Unicam Coded	Z-DL-HCL-2Co-14	
	Ni	0153	50 mm Standard	Z-DL-HCL-2Co-15	
Copper - Cu	Fe	0149	37 mm Standard	Z-DL-HCL-2Cu-01	
	Fe	0150	37 mm Unicam Coded	Z-DL-HCL-2Cu-02	
	Fe	0153	50 mm Standard	Z-DL-HCL-2Cu-03	
	Mn	0149	37 mm Standard	Z-DL-HCL-2Cu-04	
	Mn	0150	37 mm Unicam Coded	Z-DL-HCL-2Cu-05	
	Mn	0153	50 mm Standard	Z-DL-HCL-2Cu-06	
	Mo	0150	37 mm Unicam Coded	Z-DL-HCL-2Cu-07	
	Mo	0153	50 mm Standard	Z-DL-HCL-2Cu-08	
	Ni	0149	37 mm Standard	Z-DL-HCL-2Cu-09	
	Ni	0150	37 mm Unicam Coded	Z-DL-HCL-2Cu-10	
	Ni	0153	50 mm Standard	Z-DL-HCL-2Cu-11	
	Zn	0149	37 mm Standard	Z-DL-HCL-2Cu-12	
	Zn	0151	37 mm Varian Coded	Z-DL-HCL-2Cu-13	
	Zn	0150	37 mm Unicam Coded	Z-DL-HCL-2Cu-14	
	Zn	0153	50 mm Standard	Z-DL-HCL-2Cu-15	
	Gold - Au	Cu	0149	37 mm Standard	Z-DL-HCL-2Au-01
		Cu	0150	37 mm Unicam Coded	Z-DL-HCL-2Au-02
Cu		0153	50 mm Standard	Z-DL-HCL-2Au-03	
Ni		0149	37 mm Standard	Z-DL-HCL-2Au-04	
Ni		0150	37 mm Unicam Coded	Z-DL-HCL-2Au-05	
Ni		0153	50 mm Standard	Z-DL-HCL-2Au-06	
Pt		0149	37 mm Standard	Z-DL-HCL-2Au-07	
Pt		0150	37 mm Unicam Coded	Z-DL-HCL-2Au-08	
Pt		0153	50 mm Standard	Z-DL-HCL-2Au-09	
Ag		0149	37 mm Standard	Z-DL-HCL-2Au-10	
Ag		0150	37 mm Unicam Coded	Z-DL-HCL-2Au-11	
Ag		0153	50 mm Standard	Z-DL-HCL-2Au-12	
Ag		0154	50 mm Perkin Elmer Coded	Z-DL-HCL-2Au-13	
Ag		0155	50 mm PE Analyst	Z-DL-HCL-2Au-14	
Iron - Fe	Mn	0149	37 mm Standard	Z-DL-HCL-2Fe-01	
	Mn	0150	37 mm Unicam Coded	Z-DL-HCL-2Fe-02	
	Mn	0153	50 mm Standard	Z-DL-HCL-2Fe-03	

Elements	Additional Elements	Picture No	Product Description	Part #
Iron - Fe	Mo	0149	37 mm Standard	Z-DL-HCL-2Fe-04
	Mo	0153	50 mm Standard	Z-DL-HCL-2Fe-05
	Ni	0149	37 mm Standard	Z-DL-HCL-2Fe-06
	Ni	0150	37 mm Unicam Coded	Z-DL-HCL-2Fe-07
	Ni	0153	50 mm Standard	Z-DL-HCL-2Fe-08
	Zn	0149	37 mm Standard	Z-DL-HCL-2Fe-09
	Zn	0150	37 mm Unicam Coded	Z-DL-HCL-2Fe-10
	Zn	0153	50 mm Standard	Z-DL-HCL-2Fe-11
Magnesium - Mg	Si	0149	37 mm Standard	Z-DL-HCL-2Mg-01
	Si	0150	37 mm Unicam Coded	Z-DL-HCL-2Mg-02
	Si	0153	50 mm Standard	Z-DL-HCL-2Mg-03
	Zn	0149	37 mm Standard	Z-DL-HCL-2Mg-04
	Zn	0153	50 mm Standard	Z-DL-HCL-2Mg-05
Manganese - Mn	Mo	0149	37 mm Standard	Z-DL-HCL-2Mn-01
	Mo	0153	50 mm Standard	Z-DL-HCL-2Mn-02
	Ni	0149	37 mm Standard	Z-DL-HCL-2Mn-03
	Ni	0150	37 mm Unicam Coded	Z-DL-HCL-2Mn-04
	Ni	0153	50 mm Standard	Z-DL-HCL-2Mn-05
	Zn	0149	37 mm Standard	Z-DL-HCL-2Mn-06
	Zn	0150	37 mm Unicam Coded	Z-DL-HCL-2Mn-07
	Zn	0153	50 mm Standard	Z-DL-HCL-2Mn-08
Platinum - Pt	Ag	0149	37 mm Standard	Z-DL-HCL-2Pt-01
	Ag	0150	37 mm Unicam Coded	Z-DL-HCL-2Pt-02
	Ag	0153	50 mm Standard	Z-DL-HCL-2Pt-03
Silicon - Si	Ti	0149	37 mm Standard	Z-DL-HCL-2Si-01
	Ti	0150	37 mm Unicam Coded	Z-DL-HCL-2Si-02
	Ti	0153	50 mm Standard	Z-DL-HCL-2Si-03
Silver - Ag	Cr	0149	37 mm Standard	Z-DL-HCL-2Ag-01
	Cr	0150	37 mm Unicam Coded	Z-DL-HCL-2Ag-02
	Cr	0153	50 mm Standard	Z-DL-HCL-2Ag-03
	Cu	0149	37 mm Standard	Z-DL-HCL-2Ag-04
	Cu	0150	37 mm Unicam Coded	Z-DL-HCL-2Ag-05
	Cu	0153	50 mm Standard	Z-DL-HCL-2Ag-06
Sodium - Na	K	0149	37 mm Standard	Z-DL-HCL-2Na-01

Elements	Additional Elements	Picture No	Product Description	Part #
Sodium - Na	K	0150	37 mm Unicam Coded	Z-DL-HCL-2Na-02
	K	0151	37 mm Varian Coded	Z-DL-HCL-2Na-03
	K	0153	50 mm Standard	Z-DL-HCL-2Na-04
	K	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-2Na-05
	K	0155	50 mm PE Aanalyst	Z-DL-HCL-2Na-06

3 Elements

Elements	Additional Elements	Picture No	Product Description	Part #
Aluminium - Al	Ca+Mg	0149	37 mm Standard	Z-DL-HCL-3Al-01
	Ca+Mg	0153	50 mm Standard	Z-DL-HCL-3Al-02
	Ca+Mg	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-3Al-03
	Ca+Mg	0155	50 mm PE Aanalyst	Z-DL-HCL-3Al-04
	Si+Ti	0149	37 mm Standard	Z-DL-HCL-3Al-05
	Si+Ti	0150	37 mm Unicam Coded	Z-DL-HCL-3Al-06
	Si+Ti	0153	50 mm Standard	Z-DL-HCL-3Al-07
Antimony - Sb	As+Bi	0149	37 mm Standard	Z-DL-HCL-3Sb-01
	As+Bi	0153	50 mm Standard	Z-DL-HCL-3Sb-02
Arsenic - As	Se+Te	0149	37 mm Standard	Z-DL-HCL-3As-01
	Se+Te	0153	50 mm Standard	Z-DL-HCL-3As-02
Calcium - Ca	Ba+Sr	0149	37 mm Standard	Z-DL-HCL-3Ca-01
	Ba+Sr	0150	37 mm Unicam Coded	Z-DL-HCL-3Ca-02
	Ba+Sr	0153	50 mm Standard	Z-DL-HCL-3Ca-03
	Mg+Si	0149	37 mm Standard	Z-DL-HCL-3Ca-04
	Mg+Si	0150	37 mm Unicam Coded	Z-DL-HCL-3Ca-05
	Mg+Si	0153	50 mm Standard	Z-DL-HCL-3Ca-06
	Mg+Zn	0149	37 mm Standard	Z-DL-HCL-3Ca-07
	Mg+Zn	0153	50 mm Standard	Z-DL-HCL-3Ca-08
	Mg+Zn	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-3Ca-09
	Mg+Zn	0155	50 mm PE Aanalyst	Z-DL-HCL-3Ca-10
Chromium - Cr	Cu+Co	0149	37 mm Standard	Z-DL-HCL-3Cr-01
	Cu+Co	0153	50 mm Standard	Z-DL-HCL-3Cr-02
	Co+Fe	0149	37 mm Standard	Z-DL-HCL-3Cr-03
	Co+Fe	0153	50 mm Standard	Z-DL-HCL-3Cr-04
	Co+Mn	0149	37 mm Standard	Z-DL-HCL-3Cr-05
	Co+Mn	0153	50 mm Standard	Z-DL-HCL-3Cr-06
	Co+Ni	0149	37 mm Standard	Z-DL-HCL-3Cr-07
	Co+Ni	0153	50 mm Standard	Z-DL-HCL-3Cr-08
	Cu+Fe	0149	37 mm Standard	Z-DL-HCL-3Cr-09
	Cu+Fe	0153	50 mm Standard	Z-DL-HCL-3Cr-10

Elements	Additional Elements	Picture No	Product Description	Part #
Chromium - Cr	Cu+Mn	0149	37 mm Standard	Z-DL-HCL-3Cr-11
	Cu+Mn	0153	50 mm Standard	Z-DL-HCL-3Cr-12
	Cu+Ni	0149	37 mm Standard	Z-DL-HCL-3Cr-13
	Cu+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-3Cr-14
	Cu+Ni	0153	50 mm Standard	Z-DL-HCL-3Cr-15
	Fe+Mn	0149	37 mm Standard	Z-DL-HCL-3Cr-16
	Fe+Mn	0153	50 mm Standard	Z-DL-HCL-3Cr-17
	Fe+Ni	0149	37 mm Standard	Z-DL-HCL-3Cr-18
	Fe+Ni	0153	50 mm Standard	Z-DL-HCL-3Cr-19
	Mn+Ni	0149	37 mm Standard	Z-DL-HCL-3Cr-20
	Mn+Ni	0153	50 mm Standard	Z-DL-HCL-3Cr-21
Cobalt - Co	Cu+Fe	0149	37 mm Standard	Z-DL-HCL-3Co-01
	Cu+Fe	0150	37 mm Unicam Coded	Z-DL-HCL-3Co-02
	Cu+Fe	0153	50 mm Standard	Z-DL-HCL-3Co-03
	Cu+Mn	0149	37 mm Standard	Z-DL-HCL-3Co-04
	Cu+Mn	0153	50 mm Standard	Z-DL-HCL-3Co-05
	Mn+Ni	0149	37 mm Standard	Z-DL-HCL-3Co-06
	Mn+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-3Co-07
	Mn+Ni	0153	50 mm Standard	Z-DL-HCL-3Co-08
Copper - Cu	Fe+Mn	0149	37 mm Standard	Z-DL-HCL-3Cu-01
	Fe+Mn	0150	37 mm Unicam Coded	Z-DL-HCL-3Cu-02
	Fe+Mo	0149	37 mm Standard	Z-DL-HCL-3Cu-03
	Fe+Mo	0153	50 mm Standard	Z-DL-HCL-3Cu-04
	Fe+Ni	0149	37 mm Standard	Z-DL-HCL-3Cu-05
	Fe+Ni	0153	50 mm Standard	Z-DL-HCL-3Cu-06
	Fe+Zn	0149	37 mm Standard	Z-DL-HCL-3Cu-07
	Fe+Zn	0150	37 mm Unicam Coded	Z-DL-HCL-3Cu-08
	Fe+Zn	0153	50 mm Standard	Z-DL-HCL-3Cu-09
	Mn+Ni	0149	37 mm Standard	Z-DL-HCL-3Cu-10
	Mn+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-3Cu-11
	Mn+Ni	0153	50 mm Standard	Z-DL-HCL-3Cu-12
	Mn+Zn	0149	37 mm Standard	Z-DL-HCL-3Cu-13
	Mn+Zn	0150	37 mm Unicam Coded	Z-DL-HCL-3Cu-14
	Mn+Zn	0153	50 mm Standard	Z-DL-HCL-3Cu-15

Elements	Additional Elements	Picture No	Product Description	Part #
Gold - Au	Cu+Ni	0149	37 mm Standard	Z-DL-HCL-3Au-01
	Cu+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-3Au-02
	Cu+Ni	0153	50 mm Standard	Z-DL-HCL-3Au-03
	Pt+Ag	0149	37 mm Standard	Z-DL-HCL-3Au-04
	Pt+Ag	0150	37 mm Unicam Coded	Z-DL-HCL-3Au-05
	Pt+Ag	0153	50 mm Standard	Z-DL-HCL-3Au-06
Iron - Fe	Mn+Ni	0149	37 mm Standard	Z-DL-HCL-3Fe-01
	Mn+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-3Fe-02
	Mn+Ni	0153	50 mm Standard	Z-DL-HCL-3Fe-03
	Mn+Zn	0149	37 mm Standard	Z-DL-HCL-3Fe-04
	Mn+Zn	0150	37 mm Unicam Coded	Z-DL-HCL-3Fe-05
	Mn+Zn	0153	50 mm Standard	Z-DL-HCL-3Fe-06
Molybdenum - Mo	Cr+Co	0149	37 mm Standard	Z-DL-HCL-3Mo-01
	Cr+Co	0153	50 mm Standard	Z-DL-HCL-3Mo-02
	Cr+Cu	0149	37 mm Standard	Z-DL-HCL-3Mo-03
	Cr+Cu	0153	50 mm Standard	Z-DL-HCL-3Mo-04
	Cr+Fe	0149	37 mm Standard	Z-DL-HCL-3Mo-05
	Cr+Fe	0153	50 mm Standard	Z-DL-HCL-3Mo-06
	Cr+Mn	0149	37 mm Standard	Z-DL-HCL-3Mo-07
	Cr+Mn	0153	50 mm Standard	Z-DL-HCL-3Mo-08
	Co+Cu	0149	37 mm Standard	Z-DL-HCL-3Mo-09
	Co+Cu	0153	50 mm Standard	Z-DL-HCL-3Mo-10
	Co+Mn	0149	37 mm Standard	Z-DL-HCL-3Mo-11
	Co+Mn	0153	50 mm Standard	Z-DL-HCL-3Mo-12
Molybdenum - Mo	Co+Fe	0149	37 mm Standard	Z-DL-HCL-3Mo-13
	Co+Fe	0153	50 mm Standard	Z-DL-HCL-3Mo-14
	Cu+Fe	0149	37 mm Standard	Z-DL-HCL-3Mo-15
	Cu+Fe	0153	50 mm Standard	Z-DL-HCL-3Mo-16
	Cu+Mn	0149	37 mm Standard	Z-DL-HCL-3Mo-17
	Cu+Mn	0153	50 mm Standard	Z-DL-HCL-3Mo-18
	Fe+Mn	0149	37 mm Standard	Z-DL-HCL-3Mo-19
	Fe+Mn	0153	50 mm Standard	Z-DL-HCL-3Mo-20
Silver - Ag	Cr+Cu	0149	37 mm Standard	Z-DL-HCL-3Ag-01
	Cr+Cu	0150	37 mm Unicam Coded	Z-DL-HCL-3Ag-02

Elements	Additional Elements	Picture No	Product Description	Part #
Silver - Ag	Cr+Cu	0153	50 mm Standard	Z-DL-HCL-3Ag-03
	Cu+Ni	0149	37 mm Standard	Z-DL-HCL-3Ag-04
	Cu+Ni	0153	50 mm Standard	Z-DL-HCL-3Ag-05

4 Elements

Elements	Additional Elements	Picture No	Product Description	Part #
Aluminium - Al	Ca+Fe-Mg	0149	37 mm Standard	Z-DL-HCL-4Al-01
	Ca+Fe-Mg	0153	50 mm Standard	Z-DL-HCL-4Al-02
	Ca+Li+Mg	0149	37 mm Standard	Z-DL-HCL-4Al-03
	Ca+Li+Mg	0153	50 mm Standard	Z-DL-HCL-4Al-04
	Ca+Fe+Ti	0149	37 mm Standard	Z-DL-HCL-4Al-05
Barium - Ba	Ca+Mg+Sr	0153	50 mm Standard	Z-DL-HCL-4Ba-01
	Ca+Mg+Sr	0153	50 mm Standard	Z-DL-HCL-4Ba-02
Chromium - Cr	Co+Cu+Fe	0149	37 mm Standard	Z-DL-HCL-4Cr-01
	Co+Cu+Fe	0153	50 mm Standard	Z-DL-HCL-4Cr-02
	Co+Cu+Mn	0149	37 mm Standard	Z-DL-HCL-4Cr-03
	Co+Cu+Mn	0153	50 mm Standard	Z-DL-HCL-4Cr-04
	Co+Cu+Ni	0149	37 mm Standard	Z-DL-HCL-4Cr-05
	Co+Cu+Ni	0153	50 mm Standard	Z-DL-HCL-4Cr-06
	Co+Fe+Mn	0149	37 mm Standard	Z-DL-HCL-4Cr-07
	Co+Fe+Mn	0153	50 mm Standard	Z-DL-HCL-4Cr-08
	Co+Fe+Ni	0149	37 mm Standard	Z-DL-HCL-4Cr-09
	Co+Fe+Ni	0153	50 mm Standard	Z-DL-HCL-4Cr-10
	Co+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-4Cr-11
	Co+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-4Cr-12
	Co+Fe+Mn	0149	37 mm Standard	Z-DL-HCL-4Cr-13
	Co+Fe+Mn	0153	50 mm Standard	Z-DL-HCL-4Cr-14
	Cu+Fe+Ni	0149	37 mm Standard	Z-DL-HCL-4Cr-15
	Cu+Fe+Ni	0153	50 mm Standard	Z-DL-HCL-4Cr-16
	Cu+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-4Cr-17
	Cu+Mn+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-4Cr-18
	Cu+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-4Cr-19
	Cu+Ni+Ag	0149	37 mm Standard	Z-DL-HCL-4Cr-20
	Cu+Ni+Ag	0153	50 mm Standard	Z-DL-HCL-4Cr-21
	Cu+Ni+Ag	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-4Cr-22
	Cu+Ni+Ag	0155	50 mm PE Aanalyst	Z-DL-HCL-4Cr-23
	Fe+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-4Cr-24
	Fe+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-4Cr-25

Elements	Additional Elements	Picture No	Product Description	Part #
Cobalt - Co	Cu+Fe+Mn	0149	37 mm Standard	Z-DL-HCL-4Co-01
	Cu+Fe+Mn	0150	37 mm Unicam Coded	Z-DL-HCL-4Co-02
	Cu+Fe+Mn	0153	50 mm Standard	Z-DL-HCL-4Co-03
	Cu+Fe+Ni	0149	37 mm Standard	Z-DL-HCL-4Co-04
	Cu+Fe+Ni	0153	50 mm Standard	Z-DL-HCL-4Co-05
	Cu+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-4Co-06
	Cu+Mn+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-4Co-07
	Cu+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-4Co-08
	Fe+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-4Co-09
	Fe+Mn+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-4Co-10
	Fe+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-4Co-11
Copper - Cu	Fe+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-4Cu-01
	Fe+Mn+Ni	0150	37 mm Unicam Coded	Z-DL-HCL-4Cu-02
	Fe+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-4Cu-03
	Fe+Mn+Zn	0149	37 mm Standard	Z-DL-HCL-4Cu-04
	Fe+Mn+Zn	0150	37 mm Unicam Coded	Z-DL-HCL-4Cu-05
	Fe+Mn+Zn	0153	50 mm Standard	Z-DL-HCL-4Cu-06
	Fe+Mn+Zn	0149	50 mm Perkin Elmer Coded	Z-DL-HCL-4Cu-07
	Fe+Mn+Zn	0150	50 mm PE Analyst	Z-DL-HCL-4Cu-08
	Fe+Ni+Ag	0149	37 mm Standard	Z-DL-HCL-4Cu-09
	Fe+Ni+Ag	0153	50 mm Standard	Z-DL-HCL-4Cu-10
Molybdenum - Mo	Co+Cu+Fe	0149	37 mm Standard	Z-DL-HCL-4Mo-01
	Co+Cu+Fe	0153	50 mm Standard	Z-DL-HCL-4Mo-02
	Co+Cu+Mn	0149	37 mm Standard	Z-DL-HCL-4Mo-03
	Co+Cu+Mn	0153	50 mm Standard	Z-DL-HCL-4Mo-04
	Co+Fe+Mn	0149	37 mm Standard	Z-DL-HCL-4Mo-05
	Co+Fe+Mn	0153	50 mm Standard	Z-DL-HCL-4Mo-06
	Cu+Fe+Mn	0149	37 mm Standard	Z-DL-HCL-4Mo-07
	Cu+Fe+Mn	0153	50 mm Standard	Z-DL-HCL-4Mo-08

5 Elements

Elements	Additional Elements	Picture No	Product Description	Part #
Chromium - Cr	Co+Cu+Fe+Mn	0149	37 mm Standard	Z-DL-HCL-5Cr-01
	Co+Cu+Fe+Mn	0153	50 mm Standard	Z-DL-HCL-5Cr-02
	Co+Cu+Fe+Ni	0149	37 mm Standard	Z-DL-HCL-5Cr-03
	Co+Cu+Fe+Ni	0153	50 mm Standard	Z-DL-HCL-5Cr-04
	Co+Cu+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-5Cr-05
	Co+Cu+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-5Cr-06
	Co+Cu+Mn+Ni	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-5Cr-07
	Co+Cu+Mn+Ni	0155	50 mm PE Aanalyst	Z-DL-HCL-5Cr-08
	Co+Fe+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-5Cr-09
	Co+Fe+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-5Cr-10
	Cu+Fe+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-5Cr-11
	Cu+Fe+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-5Cr-12
	Cu+Fe+Ni+Ag	0149	37 mm Standard	Z-DL-HCL-5Cr-13
	Cu+Fe+Ni+Ag	0153	50 mm Standard	Z-DL-HCL-5Cr-14
	Cu+Fe+Ni+Ag	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-5Cr-15
	Cu+Fe+Ni+Ag	0155	50 mm PE Aanalyst	Z-DL-HCL-5Cr-16
Cobalt - Co	Cu+Fe+Mn+Mo	0149	37 mm Standard	Z-DL-HCL-5Co-01
	Cu+Fe+Mn+Mo	0153	50 mm Standard	Z-DL-HCL-5Co-02
	Cu+Fe+Mn+Mo	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-5Co-03
	Cu+Fe+Mn+Mo	0155	50 mm PE Aanalyst	Z-DL-HCL-5Co-04
	Cu+Fe+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-5Co-05
	Cu+Fe+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-5Co-06

6 Elements

56

Elements	Additional Elements	Picture No	Product Description	Part #
Chromium - Cr	Co+Cu+Fe+Mn+Mo	0149	37 mm Standard	Z-DL-HCL-6Cr-01
	Co+Cu+Fe+Mn+Mo	0153	50 mm Standard	Z-DL-HCL-6Cr-02
	Co+Cu+Fe+Mn+Ni	0149	37 mm Standard	Z-DL-HCL-6Cr-03
	Co+Cu+Fe+Mn+Ni	0151	37 mm Varian Coded	Z-DL-HCL-6Cr-04
	Co+Cu+Fe+Mn+Ni	0153	50 mm Standard	Z-DL-HCL-6Cr-05
	Co+Cu+Fe+Mn+Ni	0154	50 mm Perkin Elmer Coded	Z-DL-HCL-6Cr-06
	Co+Cu+Fe+Mn+Ni	0155	50 mm PE Aanalyst	Z-DL-HCL-6Cr-07

7 Elements

Elements	Additional Elements	Picture No	Product Description	Part #
Aluminium - Al	Ca+Cu+Fe+Mg+Si+Zn	0149	37 mm Standard	Z-DL-HCL-7Al-01
	Ca+Cu+Fe+Mg+Si+Zn	0153	50 mm Standard	Z-DL-HCL-7Al-02
	Ca+Cu+Fe+Mg+Si+Zn	0157	50 mm Perkin Elmer Coded	Z-DL-HCL-7Al-03
	Ca+Cu+Fe+Mg+Si+Zn	0161	50 mm PE Aanalyst	Z-DL-HCL-7Al-04

Lamp Pictures



0001



0002



0003



0006



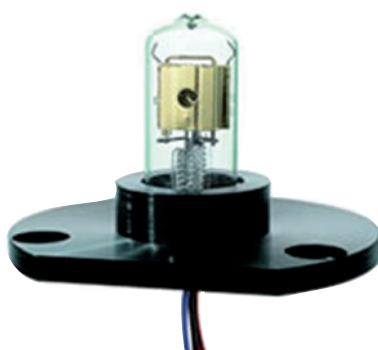
0007



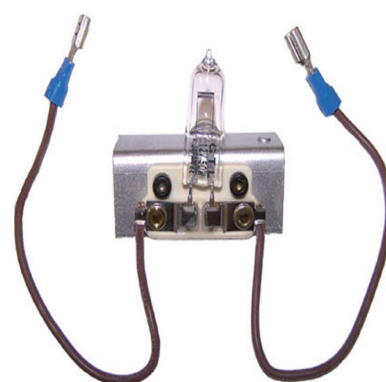
0008



0010



0011



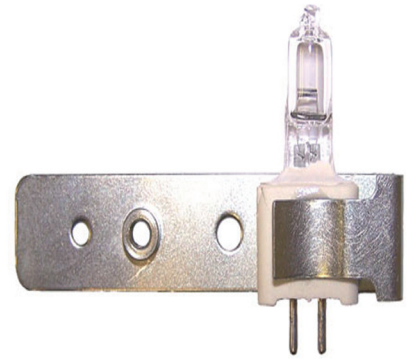
0012



0013



0016



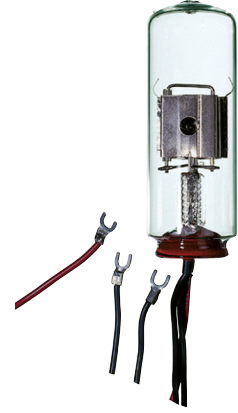
0017



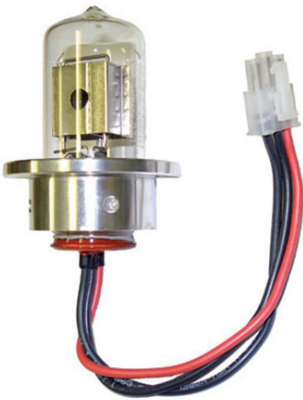
0019



0020



0022



0024



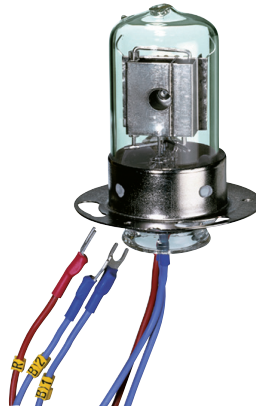
0026



0028



0029



0030



0033



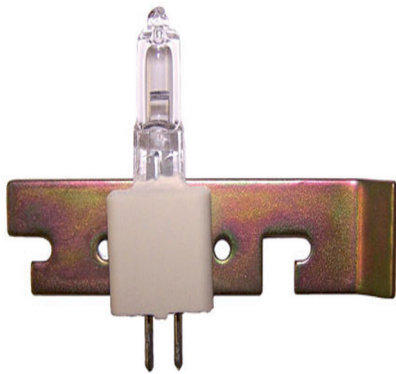
0034



0035



0036



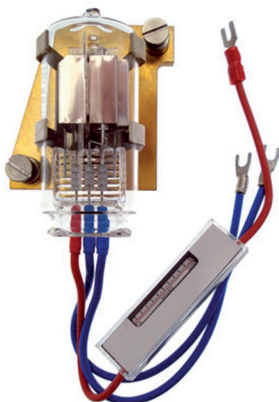
0042



0045



0047



0048



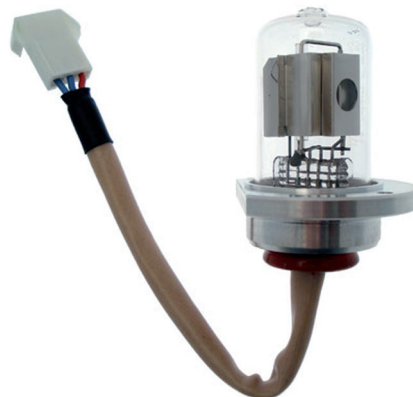
0050



0051



0054



0057



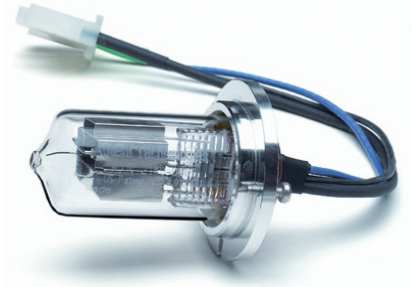
0058



0060



0061



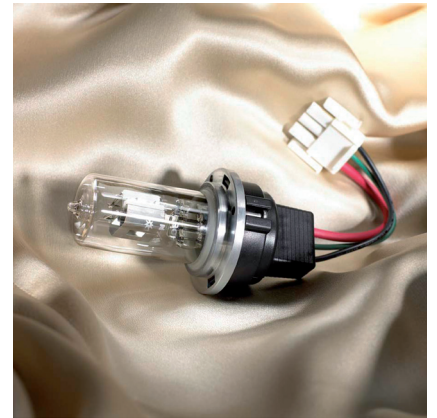
0062



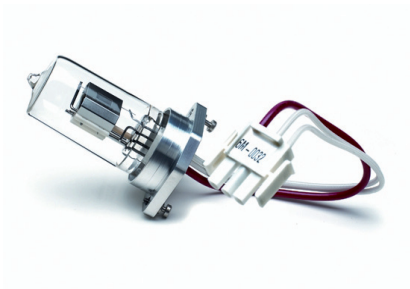
0063



0064



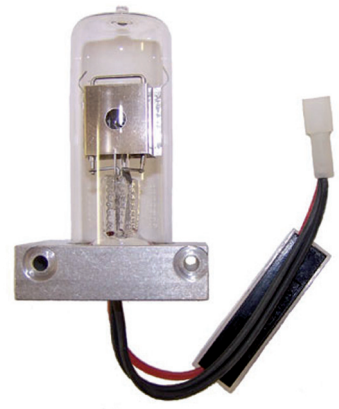
0065



0066



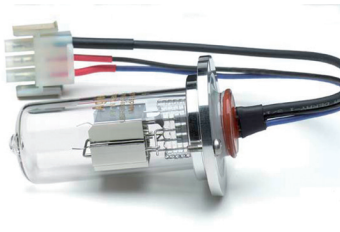
0067



0068



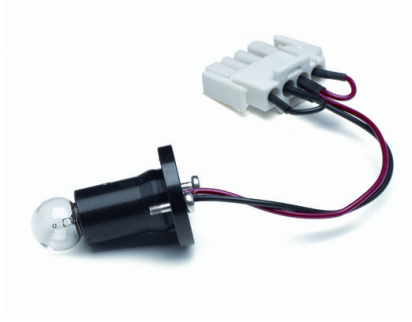
0070



0071



0072



0075



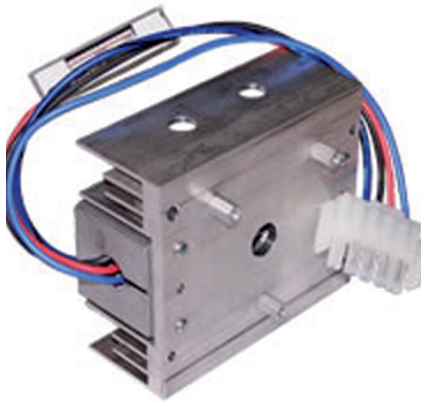
0076



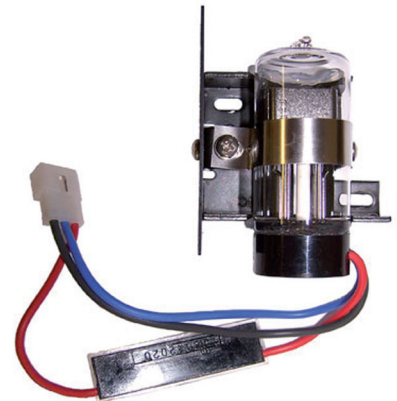
0077



0080



0089



0091



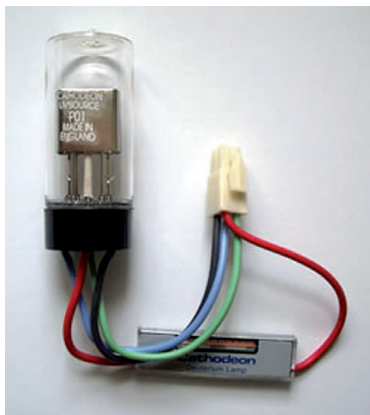
0092



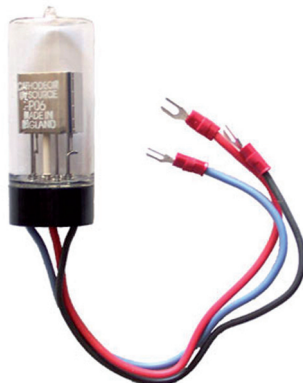
0093



0097



0101



0103



0104



0105



0107



0109



0111



0112



0113



0124



0127



0129



0134



0141



0143



0145



0149



0150



0153



0154



0155

Index

A

ABI 7
Agilent Technologies 7, 27
Alpkem 8
Altex 8
Aluminium - Al 30, 44, 49, 53, 57
American Hi-Tech 8
Amersham 8
Aminco 8
Analytik Jena 8
Antimony - Sb 30, 49
Applied Biosystems 8
Arsenic - As 30, 49
ATI 8

B

BAI 8
Barium - Ba 30, 44, 53
Barspec 8
BAS 8
Bausch & Lomb 8
Beckmann 9, 10, 27
Beryllium - Be 30, 31
Biocad 10
Biorad 10
Biotage 10
Bio-Tek Instruments 10
Biotronic 10
Bischoff 10
Bismut - Bi 31
Boron - B 31
Buchler 10

C

Cadmium - Cd 31, 44
Caesium - Cs 31
Calcium - Ca 31, 32, 44, 45, 49
Camspec 10, 27
Carlo Erba 10
Cecil Instruments 10, 11, 27
Cerium - Ce 32
Chromium - Cr 32, 45, 49, 50, 53,

55, 56
Ciba-Corning 11
Cobalt - Co 32, 45, 46, 50, 54, 55
Coleman 11
Colera 11
Columbia Scientific 11
Copper - Cu 32, 46, 50, 54

D

Deuterium - D2 43
Dionex 11, 12
Dupont 12
Dynamax 12
Dysprosium - Dy 32, 33

E

EM Science 12
Eppendorf 12
Erbium - Er 33
ERC 12
Erma 12
Europium - Eu 33

F

Femto 12

G

Gadolinium - Gd 33
Gallium - Ga 33
GAT 12
GBC 12, 13
GE Healthcare 13
Germanium - Ge 33, 34
Gilford 13
Gilson 13
Gold - Au 34, 46, 51
Gynkotek 13

H

Hach 13
Hafnium - Hf 34
Hewlett Packard 13

Hitachi 14, 15
Hi-Tech 15
Holmium - Ho 34

I

IBM 15
ICI 15
IFCO 15
Indium - In 34
Instrument SA 15
Iridium - Ir 34, 35
Iron - Fe 35, 46, 47, 51

J

Jasco 15
Jobin Yvon 15

K

Knauer 16
Kontron 16, 17, 27
Kratos 17

L

Lanthan - La 35
LDC-Milton Roy 17
Lead - Pb 35
Lear Siegler 17
Linear 17
Lithium - Li 35
LKB Biochrom 17
LKB Pharmacia 17
Lutetium - Lu 35, 36

M

Magnesium - Mg 36, 47
Manganese - Mn 36, 47
McPherson 17
Meloy Labs 17
Merck/Hitachi 18
Mercury - Hg 36
Micromeritics 18
Milton Roy 18

Molybdenum - Mo 36, 51, 54

N

Neodymium - Nd 36, 37

Nickel - Ni 37

Niob - Nb 37

Nippon Jarrel Ash 18

O

Oriel 18

Osmium - Os 37

P

Palladium - Pd 37

Perceptive Biosystems 18

Perkin Elmer 18, 19, 20, 27, 28

Pharmacia 20, 28

Phillips 20

Phosphorous - P 37, 38

Platinum - Pt 38, 47

Postnova Analytics 20, 28

Potassium - K 38

Praseodymium - Pr 38

Pye Unicam 20

R

Rainin 20

Rhenium - Re 38

Rhodium - Rh 38, 39

Rubidium - Rb 39

Ruthenium - Ru 39

S

Saitron 20

Samarium - Sm 39

Scandium - Sc 39

Scientific Systems Inc. 20

Selen - Se 39, 40

Severn Analytical 20

Shimadzu 21, 28

Silicon - Si 40, 47

Silver - Ag 40, 47, 51, 52

Sodium - Na 40, 47, 48

Softron 21

Soma 21

Speck Analytical 21

Spectra Physics 21

Spectronic Instruments 21

Spectronic Unicam 22

SSI 22

Strontium - Sr 40

Suntek Science Instruments 22

T

Tantalum - Ta 40, 41

Tellurium - Te 41

Terbium - Tb 41

Thallium - Tl 41

Thermo 22, 23, 28

Thermo Finnigan 23

Thermo Separation 23

Thorium - Th 41

Thulium - Tm 41, 42

Tin - Sn 42

Titan - Ti 42

TJA Solution 23

Tosoh 24

Tracor 24

Tungsten - W 42

U

Unicam 24, 28, 29

Uran - U 42

V

Vanadium - V 42, 43

Varian 24, 25

W

Waters 25

Y

Ytterbium - Yb 43

Yttrium - Y 43

Z

Zeiss 25, 26

Zinc - Zn 43

Zirkonium - Zr 43

Our Partners:



Postnova Analytics GmbH

Rankinestrasse 1
DE-86899 Landsberg/Lech
Tel: +49 (0) 8191.985.688.0
Fax: +49 (0) 8191.985.688.99

Postnova Analytics USA

230 South 500 East Suite 110
84102 Salt Lake City, UT, USA
Tel: +1 (0) 801.521.2004
Fax: +1 (0) 801.521.2884