

EAC Helpful Resources

ICP-MS Cones: EAC⁺ has recently worked with many labs which have switched to the new *eSpec* cones from Spectron. These cones have assisted in reducing matrix buildup, reducing downtime for maintenance, and have extended calibration stability. Agilent and PE systems have seen increased stability, improved sensitivity and longer lifetime.

<i>Agilent Technologies</i>		Cross Ref	EAC+ / Spectron List
HP1001-Ni	Nickel Sampler (25mm Ni insert)	G1820-65238	\$450
HP1002CE-Ni	Nickel Skimmer - 7500ce	G3270-65024	\$390
HP1002C-Ni	Nickel Skimmer - 7500c	G1833-65497	\$360
HP1002-Ni	Nickel Skimmer - 4500	G1820-65265	\$360
HP1002-Ni	Nickel Skimmer - 7500	G1820-65050	\$360
HP1006-Pt _e	eSPEC: Platinum Sampler, 10mm Pt/Ir insert (4500 & 7500)	G1820-65239	\$1,500
HP5001	O-ring for sampler cone	G1820-65025	\$6
HP5003 _e	eSPEC: Platinum Long Life Shield Plate (4500)	G1820-65357	\$550
HP5004 _e	eSPEC: Platinum Long Life Shield Plate (7500)	G1833-65419	\$420

<i>Sciex / Perkin Elmer</i>		Cross Ref	EAC+ / Spectron List
SC2003-Ni	Nickel Sampler - 5000	WE01-3087	\$250
SC2004-Ni	Nickel Skimmer - 5000	N812-2000	\$350
SC2011-Ni	Nickel Sampler - 6000/6100/9000	WE02-1140	\$290
SC2012-Ni	Nickel Skimmer - 6000/6100/9000	WE02-1137	\$370
SC2013-Pt _e	eSPEC: Platinum Sampler - 6000/6100/9000	WE02-7802	\$2,200
SC2014-Pt _e	eSPEC: Platinum Skimmer- 6000/6100/9000	WE02-7803	\$1,500
SC5011	Sampler cone o-ring, pack of 5	N8120511	7.50
SC5012	Skimmer cone o-ring, pack of 5	N8120512	7.50

Vacuum Pump Oil for ICP-MS: Remember to replace your pump oil regularly. Ordering pump oil can sometimes be misleading. Use Edwards BOC Part #'s for reference when ordering from any vender and looking for product specifications. Remember, *saving money* on vacuum oil types have led to backing pump replacements.

12 x 1L : H11025012

1 x 1gal:H11025013

4 x 1gal: H11035011

EMF 20 Odor Filters A223-04-077

EMF 20 Mist Filters A223-04-199

Analytical Standards:

EAC⁺ Tune Stock Solution: 10ppm ⁷Li, ⁹Be, ^{56,57}Fe, ⁵⁹Co, ⁸⁹Y, ¹⁴⁰Ce, ¹³⁸Ba, ²⁰⁵Tl

- Use ¹⁵⁶CeO⁺/¹⁴⁰Ce⁺ for Oxides Ratio and ⁶⁹Ba⁺⁺/¹³⁸Ba⁺ for Double Charge Ratio when either Ge or Ga is used in an online IS Mix.
- Use ⁵⁷Fe/⁵⁶Fe Ratio to determine when All ArO⁺ interferences have been resolved.

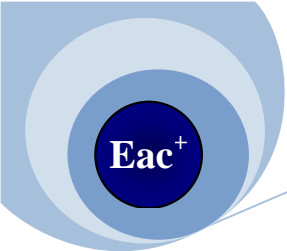
EAC⁺ IS Stock Standard: 100ppm ⁶Li, ⁴⁵Sc, ⁷⁴Ge, ¹⁰³Rh, ¹⁵⁹Tb, ²⁰⁹Bi

- This combination allows Agilent 7500 users to meet daily tune criteria without removing or changing the online IS configuration.

EAC⁺ P/A Stock Standard: 10ppm: Al, Ba, Co, Cr, Cu, Mn, Na, Sr, Ti, Tl, U, V
20ppm: Ca, Fe, Mg, Mo, Ni, Pb, Sn 40ppm: As, Be, Cd, Zn

- This combination allows Agilent 7500 users (working with a 1:100 dilution) to meet all daily P/A factors with one analysis.

Pump Tubing			Elements	Spectron
Agilent 7500	Sample	Wht/Wht/Wht	310-8080-300	SC 0059
Agilent 7500	Sample	Org/Wht/Org	310-5080-300F	SC 0055 F
Thermo i6000	Sample	White/White	310-8080-200	0549-09
Thermo i6000	Sample	Orange/White	310-5080-200F	0549-06F
PE Optima/Elan	Sample	Black/Black Flared	310-1010-200F	0549-07F
PE Optima/Elan	Sample	Red/Red Flared	310-7070-200	0549-10
PE SC FAST	Sample	Orange/Yellow Flared	310-5090-200F	0549-05F
PE SC FAST	Sample	Orange/White	310-5080-200F	0549-06F
PE SC FAST	Internal Standard	Orange/Green Flared	310-5030-200F	0549-04F
All	Internal Standard	Orange/Blue Flared	310-5020-200F	0549-03F
All	Internal Standard	Org/Blue/Org Flared	310-7020-300F	SC 0050 F
EAC ⁺ Tune Stock	50ml		See custom mixes	
EAC ⁺ IS Stock	50ml		See custom mixes	
EAC ⁺ P/A Stock	50ml		See custom mixes	



Autosampler Probes Tubes: Users of the Cetac 500 series have noticed small drips from the probe as it moves back to rinse. Probes manufactured by ESI have a Teflon® - PFA outer coating, which eliminates the potential of contamination.

Cetac ASX-500 series	ES-5037-0500-100	ES-5037-0750-100
PE AS-90 series	ES-5027-9500-100	ES-5027-9750-100

Polypropylene autosampler tubes are best for elemental analysis. Avoid all polystyrene products in the laboratory.

14ml tubes (60 place rack)	Fisher 14-956-76 or VWR 60818-615	Elements 800-17100PP
8ml tubes (90 place rack)	Fisher 14-956-7A or VWR 60818-860	Elements 800-13100PP

General Laboratory: Many labs have background noise from pumps, fans, instruments and water circulators. EAC+ recommends products similar to acoustic foam used by sound studios, www.auralex.com.

Thermo Fisher and VWR provide surface protectors. Bytac® has devolved a few different types of surface protectors for laboratories. Essentially, Teflon® coated shelf paper; provide analysts a clean working surface. These products can also be used to seal in potential contamination sources, such as metal surfaces which cause contamination.

Dissolved metals can be easily filtered in the lab without contamination. 0.45µm filters capable of attaching to your 50ml centrifuge tubes for vacuum filtration. Fisher- SEIM 003 M00 VWR- 28297-778

50ml Centrifuge tubes	VWR - 820818-052	Elements - 800-50-CT
15ml Centrifuge tubes		Elements - 800-15CT

EAC+ Free Shipping: When ordering directly from Elements, Spectron and Elemental Scientific Inc., remember to ask for 'Free EAC+ Shipping'. EAC+ will pay ground shipping costs to save your laboratory money!