

Radiopharmacy

Environment

Geochemistry

Decommissioning

Efficient separation of cations
for mass spectrometric analysis

- Dating & isotope ratio determination
- Preconcentration & matrix removal
- Removal of isobaric interferences
- Fast methods and reliable results
- Separation of several elements out of one sample



TrisKem's expertise in separation chemistry and its wide range of resins with different selectivities provides a number of opportunities to solve analytical problems through sample preparation.

With our broad products' offer and our long experience, TrisKem can help you meet lower detection limits with less uncertainty. Frequently the problems encountered are centred on removing matrix interfering with the instrumental measurement. ICP-MS is an example. Isobaric interferences have often to be removed in order to allow accurate determination of your analytes.

Selectivity for the analyte of interest is important in these cases. Extraction chromatography is widely used in various analytical applications, including the determination of Sr isotope ratios, in geochronology and dating (e.g. U/Pb, Nd/Sm,...), and the determination of Pb and Be in difficult matrices.

Products	Applications*
CU Resin	Cu
ZR Resin	Zr, Ti, Nb, Ga, Ge
TK400 Resin	Pa, Nb
TK100/1 Resin	Pb, Sr, Ra (direct determination)
TK202 Resin	Tc, Re from alkaline samples
TBP Resin	Sn, Actinides, Ag
CL Resin	Ag, Pa
CS Resins	Cs-134/7
TK200 Resin	U, Th, Pu, Zn
TK201 Resin	Cu, Zn, Fe
TK221 Resin	Actinides, lanthanides
TK211/12/13 Resins	Lanthanide separation
Guard Resin	Removal of organic impurities
MnO ₂ -PAN	Ra preconcentration
Ra Nucfilms discs	Ra-226
Discs	Source preparation for alphaspectrometry
Autodeposition kit	Po autodeposition
LSC consumables	Liquid Scintillation Counting
DGA Sheets	Rapid screening by TLC
Pyrolyser, Pyrolyser Mini	H-3, C-14

*the main application is in brown

Our new developments - for information on all our products please visit our web site:

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