

Papers on **PolySULFOETHYL Aspartamide™** - for Cation-Exchange [SCX] and HILIC

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SCX of peptides: Hydrophilic & hydrophobic mixed-mode effects.
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SCX-HPLC as a tool for characterization and purif. of peptides.
- Introduction of shotgun proteomics:** SCX-RPC capillaries for direct MS/MS analysis of protein complexes.
- Purif. of human type II phospholipase A2 from CHO cells (SCX-RPC sequence) .
Isoln. via SEC-SCX-RPC of a 17-residue peptide mediating glycolipid-induced tobacco protoplast proliferation in vitro.
- Purif. of cobalt complexes of zinc finger peptides.
- Purif. of complex of rhenium with α -MSH.
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Isoln. and ident. of cyclic imide and **deamidation products of pramlintide**.
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- SCX-RPC in potential mass tags for proteomics.
Gastric carcinoma proteomics [**NOTE**: > 80% of the peptides eluted from SCX in single fractions] IEF vs. SCX of tryptic digests [**NOTE**: Results were similar].
CEC of basic compounds: SCX-HILIC was better than RPC.
Purif. of synthetic analogs of calcitonin gene-related peptide.
Isoln. of viomycin, an antitubercular.
Cleavable ICAT tag to improve peptide i.d.'s
Proteomics of macromolecular complexes.
Isoln. of rapid alkalization factor peptides from poplar cell cultures.
Pressurized CEC: SCX-HILIC & RPC for peptides.
MuDPIT analysis of ubiquitin affinity-extracted proteins.
2-D nanoLC-MS for proteomics.
- Nuanced discussion of false positives & factors affecting successful i.d.'s in SCX-RPC.**
Use of an SCX guard cartridge in SCX-RPC of crosslinked membrane protein digests.
MuDPIT of lung vascular endothelial cells.
Improvements in ICAT quantitation.
Proteomics for **biomarkers** of rheumatoid arthritis.
Proteomics of low mol. weight mouse serum.
Identification of a human leukocyte presented peptide from vaccinia virus.
SCX-RPC-MS identification of peptides presented by diabetogenic MHC molecules.
4214 proteins i.d.'d in a cultured liver cell line infected with hepatitis C virus, including viral proteins.
iTRAQ reaction mix cleanup on a PolySULFOETHYL A cartridge.
Cleanup of iTRAQ reaction mixture in proteomics of a kinase complex in *C. albicans*.
SCX-RPC to get nitrotyrosine peptides from peroxynitrite-inactivated IDO.
2-D LC proteomics of *M. tuberculosis*.
SCX used to purify synthetic mosquito natriuretic peptide from Arg deletion sequences.
Phosphopeptides from post-synaptic density: identification via SCX-RPC vs. IMAC-RPC.
ICAT analysis of mouse hepatic proteome; effect of drug-induced liver disease.
HPLC assay of attack of aminopeptidase P on bradykinin and its metabolites.
Microfluidic device: **2-D LC provides 2-3x more sequence coverage than 1-D LC, even with only 8 SCX fractions collected.**
Online multidimensional system: **2-D LC yielded 2x more protein i.d.'s than did 1-D LC.**
Proteomics: Tagging peptides in SCX fractions with Alexa Fluor 350 (at N-term.) or guanidine (at Lys) increases protein i.d.'s 30%.
Proteomics: Filtering criteria for peptide i.d.'s tested with lysates & plasma.
ICAT analysis of proteins from healthy & infected Atlantic salmon.
iTRAQ & ICAT search for **cancer markers** from endometrial tissue.
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