

CONTENTS

Preface	VII
F.M. Everaerts and F.E.P. Mikkers: Isotachophoresis. A general Introduction	1
Th.P.E.M. Verheggen, F.E.P. Mikkers, D.M.J. Kroonenberg and F.M. Everaerts: A new construction for column coupling in isotachophoresis	41
A. Adam, J. Damas, C. Schots, G. Heynen, P. Franchimont: Kininogens: I. Purification of human low molecular weight (L.M.W.) kininogen	47
F. Oerlemans, Th. Verheggen, F. Mikkers, F. Everaerts and C. de Bruyn: Isotachophoretic separation of serum purines and pyrimidines	63
J.S. van der Hoeven and H.C.M. Franken: The determination of various low-molecular-weight carboxylic acids in biological samples by isotachophoresis	69
Ph. Gysen and G. Heynen: Quantitative characterization of phosphorus - containing anions by analytical isotachophoresis	81
Ph. Gysen and G. Heynen: The quantitative estimation of calcium-diphosphonate interaction by isotachophoresis	85
B. Gustavsson and A. Baldesten: Isotachophoretic determination of 5-fluorouracil in serum	89
J. Buret and C. Cox: Purity control of synthetic NAD ⁺ derivatives by isotachophoresis	95
R.C. Woledge and P. Reilly : Isotachophoretic analysis of metabolites in muscle extracts	103
K. Schmidt, V. Hagmaier and G. Bruchelt: Determination of urinary oxalate concentration by analytical isotachophoresis	109
W. Tschöpe, R. Brenner, A. Baldesten and E. Ritz: Determination of urinary oxalate by isotachophoresis in untreated urine	117
F. Mikkers and S. Ringoir: Isotachophoresis of uremic metabolites	127
L. Zimmerman, A. Baldesten, J. Bergström and P. Fürst: Isotachophoretic separation of middle molecule peptides in uremic body fluids	141

VI

C.J. Holloway: The assay of enzymatic processes involving UDP-glucuronate as substrate by analytical capillary isotachopheresis	153
C.J. Holloway, S.Husmann-Holloway and G. Brunner: The isotachopheretic analysis of β -glucuronides: a new application in the enzymatic assay of UDP-glucuronyltransferase	177
P.W. Lange: Isotachopheresis of brain cell soluble protein from learning rats	187
J. Bours, P. Delmotte and G.J. Binkhorst: Isotachopheresis of the proteins from bovine aqueous humor and cerebrospinal fluid, compared to bovine serum	195
J. Bours, H.D. Zauzig and H. Rink: The crystallin composition of bovine lens epithelium, equator and nucleus, in relation to aging: a comparison of isotachopheresis, isoelectric focusing and antigen/antibody crossed electrophoresis	207
J. Bours and P. Delmotte: Age-dependent variations in the composition of the crystallins and albuminoid of the mouse lens, studied by isoelectric focusing and isotachopheresis	221
K.G. Kjellin and L. Hallander: Isotachopheresis of cerebrospinal fluid proteins	239
L. Hallander and K.G. Kjellin: Isotachopheretic systems for studying proteins in cerebrospinal fluid and serum	245
P. Delmotte: Monitoring of protein-protein interaction by capillary isotachopheresis	259
S.G. Hjalmarsson and J. Sjö Dahl: Protein-drug and protein-detergent interactions studied by capillary isotachopheresis	267