



UPPSALA
UNIVERSITET

Molecular Biotechnology Programme

Uppsala University School of Engineering

UPTEC X 08 013	Date of issue 2008-02	
Author	Per Jungnelius	
Title (English)	Asymmetrical flow field-flow fractionation system parameters and its use on optimized quantitative antibody separation	
Title (Swedish)		
Abstract	Method development parameters for the novel separation method asymmetrical flow field-flow fractionation were investigated and evaluated using design of experiments methodology. An optimized method for separation of immunoglobulin G aggregates was developed and results were correlated with size-exclusion high performance liquid chromatography, sedimentation velocity analytical ultracentrifugation, native polyacrylamide gel-electrophoresis and dynamic light scattering.	
Keywords	A4F, FFF, method development, IgG, SE-HPLC, SV-AUC, native PAGE, DLS, DoE.	
Supervisors	Michael Wouda, M.Sc. Analytical Sciences, Biovitrum AB, Stockholm	
Scientific reviewer	Prof. Karin Caldwell Dept. of Surface Biotechnology, Uppsala University	
Project name	Sponsors	
Language	Security	
ISSN 1401-2138	Classification	
Supplementary bibliographical information	Pages 58	
Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217