



UPPSALA
UNIVERSITET

Molecular Biotechnology Programme

Uppsala University School of Engineering

UPTEC X 05 016	Date of issue 2005-03	
Author	Fredrik Noborn	
Title (English)	Developing and characterizing an assay for prostate specific antigen	
Title (Swedish)		
Abstract	Detection of biomarkers in complex sample environment (e.g. plasma) is problematic, due to large amounts of non-specific binding. The non-specific binding affects the analyte levels negatively, which causes a loss of sensitivity. The possibility to minimizing the effects of non-specific binding in plasma measurements in Biacore was studied. By using Biacore S51, some of problems related to the non-specific binding could be minimized satisfactory.	
Keywords	Biacore, Surface Plasmon Resonance, SPR, non-specific binding, plasma, Prostate Specific Antigen, PSA.	
Supervisors	Björn Persson and Anita Larsson Biacore AB, Uppsala	
Scientific reviewer	Torgny Fornstedt Department of Surface Biotechnology, Uppsala University, Uppsala	
Project name	Sponsors	
Language	Security	
ISSN 1401-2138	Classification	
Supplementary bibliographical information	Pages	
	42	
Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217