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Author	Anna Grönberg	
Title (English)	Evaluation of the Biacore 2000 instrument for screening of low molecular weight affinity ligands	
Title (Swedish)		
Abstract	<p>An important stage in the development of new affinity media for protein purification is the screening of potential affinity ligands for binding to the target protein. In this study, the screening potential of the SPR-based BIACORE 2000 instrument was evaluated using Human Serum Albumin (HSA) and 18 compounds known to bind to HSA as a test system. The molecular weights of the ligands were between 138 and 823 Dalton while the published Kd's ranged from mM to sub-μM. The SPR results were compared with published data and with data obtained by Saturation Transfer Difference (STD) NMR spectroscopy. In general, the qualitative NMR data correlated well with the SPR results. The results from the SPR screening showed good agreement with published data and enabled a quantitative ranking of the affinity ligands. Direct binding assays on the Biacore 2000 can therefore give valuable information in the development of new affinity media.</p>	
Keywords	Biosensor, Biacore 2000, Human Serum Albumin, low molecular weight affinity ligands, Saturation Transfer Difference NMR spectroscopy	
Supervisors	Elles Steensma R&D protein separations, Amersham Biosciences AB, Uppsala	
Scientific reviewer	Karin Caldwell Center for surface biotechnology, Uppsala University, Uppsala	
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Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217