



UPPSALA  
UNIVERSITET

## Molecular Biotechnology Programme

Uppsala University School of Engineering

<b>UPTEC X 04 015</b>	<b>Date of issue 2004-02</b>	
Author	<b>Annasara Dahlström</b>	
Title (English)	<b>Alignment media for studying protein structures by NMR</b>	
Title (Swedish)		
Abstract	<p>By using an anisotropic medium, residual dipolar couplings can be measured in biomolecules. In this project, two different media have been studied and residual dipolar couplings have been measured by NMR spectroscopy in the E140Q mutant of the C-terminal domain of calmodulin. The mutant domain undergoes spontaneous conformational changes and the recorded data will be used to calculate these structures.</p>	
Keywords	bicelles, strained polyacrylamide gels, dynamics, IPAP-HSQC	
Supervisors	<b>Mikael Akke</b> <b>Department of Biophysical Chemistry, Lund University</b>	
Scientific reviewer	<b>Andreas Muranyi</b> <b>Amersham Biosciences, Uppsala</b>	
Project name	Sponsors	
Language	Security	
<b>ISSN 1401-2138</b>	Classification	
Supplementary bibliographical information	Pages	
	<b>25</b>	
<b>Biology Education Centre</b> Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217