Affinity Electrophoresis for Analysis of Catalytic Module-Carbohydrate Interactions

Affinity electrophoresis has long been used to study the interaction between proteins and large soluble ligands. The technique has been found to have great utility for the examination of polysaccharide binding by proteins, particularly carbohydrate binding modules (CBMs). In recent years, carbohydrate surface binding sites of proteins mostly enzymes have also been investigated by this method. Here, we describe a protocol for identifying binding interactions between enzyme catalytic modules and a variety of carbohydrate ligands.

General information
State: Published
Organisations: Department of Chemical and Biochemical Engineering, Center for BioProcess Engineering, Department of Biotechnology and Biomedicine, Enzyme and Protein Chemistry, University of Michigan
Contributors: Cockburn, D., Wilkens, C., Svensson, B.
Pages: 119-127
Publication date: 2017

Host publication information
Title of host publication: Protein-Carbohydrate Interactions : Methods and Protocols
Volume: 1588
Publisher: Springer
Editors: Abbott, D. W., van Bueren, A. L.
ISBN (Print): 978-1-4939-6898-5
(Methods in Molecular Biology).
Keywords: Protein Binding, Affinity electrophoresis, Carbohydrate binding module, Dissociation constant, Polyacrylamide gel electrophoresis, Polysaccharide, Surface binding site
DOIs: 10.1007/978-1-4939-6899-2_9
Source: FindIt
Source-ID: 2356847196
Research output: Research - peer-review › Book chapter – Annual report year: 2017