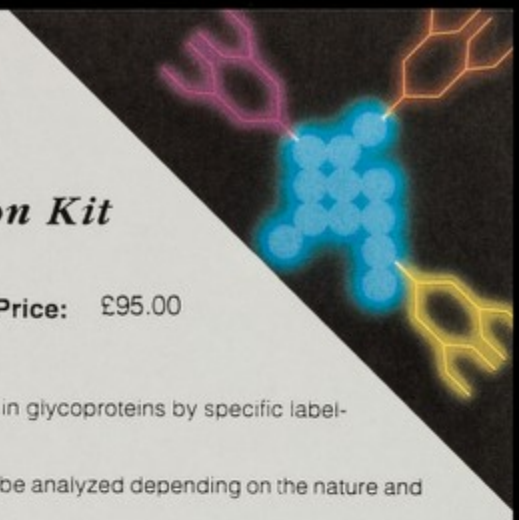
Glycotrack : carbohydrate detection kit / Oxford GlycoSystems Ltd.

TOOLS FOR GLYCOBIOLOGY

GlycoTrack™ *Carbohydrate Detection Kit*



Cat. No: K-050 **Price:** £95.00

Application: The positive detection of carbohydrate moieties in glycoproteins by specific labelling and membrane blotting.

Sample Range: From 10 ng to 20 µg of glycoprotein in 20 µl may be analyzed depending on the nature and extent of glycosylation in the glycoprotein.

Number of Assays: Reagents are sufficient for more than 50 labelling reactions and over 26 membranes each with an area of 1600 mm^2.

Starting Material: Samples from cell lysates to pure proteins can be analyzed in conjunction with SDS-PAGE/ Western blotting or dot blotting.

Storage: The kit should be kept at 4°C before use. Components which must be kept at -20°C after reconstitution are grouped together in a separate foam insert for easy storage.

Description: A fundamental question asked by all scientists studying eukaryotic proteins is: "Is my protein glycosylated?" GlycoTrack has been specifically designed to provide an easy, definitive, answer to this question.

Oxidation of the sample glycoprotein with periodate and subsequent reaction with biotin-hydrazide leads to the specific incorporation of biotin into the carbohydrate moiety. The biotinylated glycoprotein is then detected with a streptavidin-alkaline phosphatase conjugate. Two protocols for the detection of glycoproteins are provided:

Protocol 1 has been designed for labelling glycoproteins already immobilized on a membrane and is particularly suitable when multiple samples (e.g. column fractions) are to be analyzed or interference by substances in the glycoprotein samples is suspected.

Protocol 2 has been designed for solution labelling before electrophoresis and blotting and is the more sensitive method as all generated aldehydes are available for biotinylation.

Kit Contents:

❖ Periodate ❖ Hydrazide ❖ Blocking reagent ❖ Protocol ❖ Bisulphite
❖ Streptavidin-alkaline phosphatase conjugate ❖ 5-bromo, 4-chloro, 3-indolyl phosphate
❖ Nitroblue tetrazolium ❖ Native markers ❖ Biotinylated markers ❖ Ribonuclease B

Specificity: Minimal non-specific interactions through the specificity of periodate oxidation and biotinylation.

High Sensitivity: An extremely low background and high sensitivity is achieved through the Biotin-Streptavidin Detection System. Sample amounts from 10 ng to 20 µg of glycoprotein in 20 µl can be analyzed with as little as 1 ng of glycoprotein being detected.

Convenient: All essential reagents are included.

Easy to Use: Complete step by step protocols for both membrane and solution labelling are included together with a guide to interpreting results.

Low Cost: Reagent quantities and number of assays per kit have been optimized to minimize cost per analysis.

Rapid: Your question "Is my protein glycosylated?" can be answered in less than 5 hours.

Oxford GlycoSystems

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