



Glycoforms Analysis

GUIDELINES FOR SAMPLE SUBMISSION

The complete structure of the oligosaccharide chains N-linked to glycoproteins or glycoconjugates including the composition of the monosaccharides, the sequence of the antennae, the presence of sialylated and/or fucosylated structures and the occurrence of modifying groups is determined using mass spectrometric strategies.

The structural characterization of glycans is complicated due to the presence of a complex pool of glycoforms in the same protein. Different types of N-linked glycans can be present at the same glycosylation site or the same glycosidic structure may have different epitopes at the non-reducing end, leading to a diffuse microheterogeneity of the glycoprotein sample.

Conditions for Glycoforms Analysis

A) Sample in solution or lyophilized:

Single purified glycoproteins should be preferentially provided in aqueous solution or organic solvents (i.e. Acetonitrile, TFA). Lyophilized proteins are also acceptable. The protein sequence must be provided. Please, indicate the last step in sample preparation.

Provide information on protein concentration and buffer composition.

Requested amount

Indicative amounts of proteins for glycoforms analysis consists of 4-10 nmol of lyophilized or soluble protein.

Important for sample submission

Please avoid the presence of high concentration of detergents and glycerol.

Primm provides either the complete characterization of glycoforms or single individual analytical services, i.e. the composition of monosaccharide or the identification of glycosylation sites or the glycoforms profiling.

Analysis Time

2-4 weeks from the arrival of the samples.