

# Ludger Glycan Standards and Controls

Ludger Glycan Standards and Controls			Process positive control for release-labelling-analysis				Release Process positive control				Labelling Process positive control				MS System suitability		(u)HPLC System suitability				GU Calibration		WAX System Suitability		CE System Suitability	Structure Identification by retention time or m/z matching				Quantification				Exoglycosidase control				
Product Category	Ludger Code	Product Description	SA	MONO	N	O	SA	MONO	N	O	SA	MONO	N	O	N	O	SA	MONO	N	O	N	O	N	O	N	SA	MONO	N	O	SA	MONO	N	O	N	O			
Glycoprotein/Glycopeptides	GCP-IGG	IgG Glycoprotein	●	●	●		●	●	●																													
	GCP-FET	Fetuin Glycoprotein	●	●	●	●	●	●	●	●																												
	BQ-GPEP-A2G2S2	GPEP-A2G2S2	●	●	●		●	●	●																	●	●	●		●	●							
Monosaccharide and Sialic Acid standards	CM-SRP	SRP Sialic Acid Reference Panel									●						●									●												
	CM-NEU-AC	Neu5Ac									●															●												
	CM-NEU-GC	Neu5Gc									●															●												
	CM-NEU5,9AC2	Neu5,9Ac <sub>2</sub>									●															●												
	CM-MONOMIX	MonoMix										●						●									●											
	CM-XYL	Xylose										●															●											
Unlabelled N-Glycans	CN-x	Bi, Tri and Tetra-antennary N-glycans											●		●				●									●										
	CN-Man-x	High Mannose N-glycans											●		●				●									●										
	BQ-CHITOTRIOSE	Chitotriose											●	●	●	●			●	●											●							
	BQ-CN-MAN8	Man8											●		●				●									●										
	CLIBN-IGG	IgG N-glycan library											●		●				●									●										
	SA-MAB4	Mab 4 glycan ref panel											●		●				●									●										
	CLIBN-FETUIN	Fetuin N-glycan library											●		●				●									●										
	CLIBO-FETUIN	Fetuin O-glycan library												●		●				●										●								
2-AB labelled glycans	CAB-GHP	2-AB labelled Glucose Homopolymer																	●	●	●	●						●	●									
	BQ-CAB-CHI	2-AB labelled Chitotriose													●	●			●	●											●	●						
	CAB-IGG	2-AB labelled IgG N-glycan library													●				●									●								●		
	CAB-x	Bi, Tri and Tetra-antennary N-glycans													●				●									●								●		
	CAB-Man-x	High Mannose N-glycans													●				●									●								●		
	CAB-Cx-x	O-glycans														●				●									●								●	
	CAB-AlphaGal	Alpha-Gal standard																																		●		
2-AA labelled glycans	CAA-GHP	2-AA labelled Glucose Homopolymer																	●	●	●	●						●	●									
	BQ-CAA-CHI	2-AA labelled Chitotriose													●	●			●	●											●	●						
	CAA-x	Bi, Tri and Tetra-antennary N-glycans													●				●									●								●		
	CAA-Man-x	High Mannose N-glycans													●				●									●								●		
	CAA-AlphaGal	Alpha-Gal standard																																		●		
APTS labelled glycans	CAPTS-IGG	APTS labelled IgG N-glycan library																	●						●			●								●		
	CAPTS-x	APTS labelled N-glycans																	●						●			●								●		
PROC labelled glycans	CPROC-GHP	PROC labelled Glucose Homopolymer													●				●	●	●	●						●	●									
	CPROC-IGG	Proc labelled IgG N-glycan library													●				●									●								●		
	CPROC-x	Bi and Tri-antennary N-glycans													●				●									●								●		
	CPROC-Man-x	High Mannose N-glycans													●				●									●								●		
Permethylated Glycan Standards	CPM-IGG	Permethylated IgG N-glycans													●													●										
	CPM-C13-IGG	Permethylated ( <sup>13</sup> C) IgG N-glycans													●													●						●				

SA: Sialic Acid / MONO: Monosaccharide / N: N-Glycans / O: O-Glycans

▲ requires labelling first