



Ludger

News

Happy New Year!

The team at Ludger would like to wish you a very happy and prosperous 2014
Contact us: info@ludger.com

Quantitative glycopeptide standard

Ludger Ltd. has produced a purified glycopeptide standard, the first in a range of **Ludger BioQuant™ quantitative standards**, which can be used as an internal standard and positive control when performing **sialic acid or monosaccharide analyses** in house. This will enable you check the efficiency of glycan release, labeling and recovery.

This Ludger BioQuant™ Standard (**Cat# BQ-GPEP-A2G2S2-10U**) is a disialylated complex biantennary N-linked glycan containing 2 galactose residues.

IgG glycopeptide labelling

LudgerTag™ Vtag glycopeptide labeling and enrichment kits are now available. The kits are designed for the labeling and enrichment of IgG subclass glycopeptides. Glycoprotein samples are digested with pronase, labelled with Vtag dye then enriched using SPE cartridges. 24 samples per kit. The procedure can be performed within one working day.

Once labelled and enriched, the glycopeptides may be studied by a number of different analytical methods including HPLC/UHPLC or MALDI mass spectrometry.

For more information please contact us.
Cat # **LT-VTAG-24**

Alpha-Gal standards

Galactose-alpha-1,3-galactose, commonly known as **alpha gal** is a carbohydrate found in mammalian meat products. Approximately 1% of immunoglobulins in humans are specific to alpha-gal, and these antibodies (anti-Gal) cause an allergic reaction. Due to its potential immunogenicity, it is important therefore to screen biopharmaceuticals for alpha-gal. Some drug developers are also investigating the use of anti-Gal for tumour therapies.

Ludger has produced 2AB or 2AA labelled linear trisaccharide with the same sequence (Gal alpha 1-3 Gal beta 1-4 GlcNAc) as is found on N-glycans. This standard is a useful positive control in glycoprofiling sequencing experiments utilising alpha1-3 galactose specific exoglycosidase.

2-AB labelled alphagal, 100 pmol
2-AA labelled alphagal, 100 pmol

Cat# CAB-ALPHA-GAL-01
Cat# CAA-ALPHA-GAL-01

Ludger ready-made solvent for monosaccharide analysis

Accurate analysis of monosaccharides is an important step in glycoprotein characterisation and is a requirement for regulatory submissions of biopharmaceuticals. Ludger's monosaccharide release and labelling kit (Cat No. **LT-MONO-96**), which can be used for full quantitative or routine monosaccharide analysis, is now widely used by the biopharmaceutical industry.

For UHPLC analysis of 2-AA labelled monosaccharides, Ludger Ltd now offer a ready-made butylamine/ phosphoric acid/ tetrahydrofuran (BPT) solvent concentrate (Cat No. **LS-R-BPTX10**). The new x10 concentrate is easy to use - simply dilute with water and use directly as an elution gradient when using the LudgerSep™ uR2 UHPLC column (Cat No. **LS-UR2-2.1x50**). Once made up, the solvent is sufficient for approximately 130 monosaccharide chromatography runs on this column.

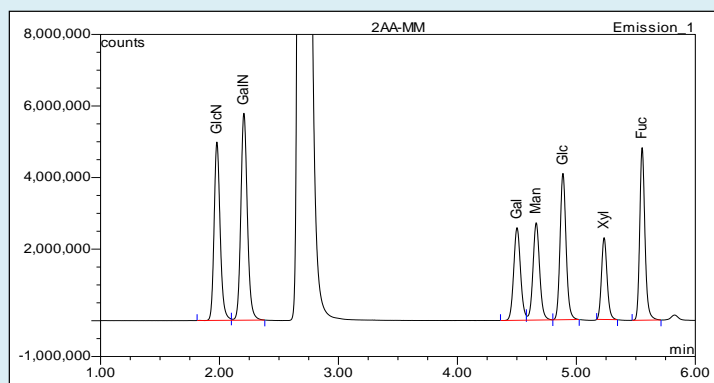


Figure 1: An 8 minute 2-AA fluorescence chromatogram of the monosaccharides glucosamine (GlcN), galactosamine (GalN), galactose (Gal), mannose (Man), glucose (Glc), xylose (Xyl) and fucose (Fuc).

Please contact us if you wish to receive information about Ludger products, request a quote, place an order or to enquire about our custom glycoprofiling services:

info@ludger.com