Ludger News

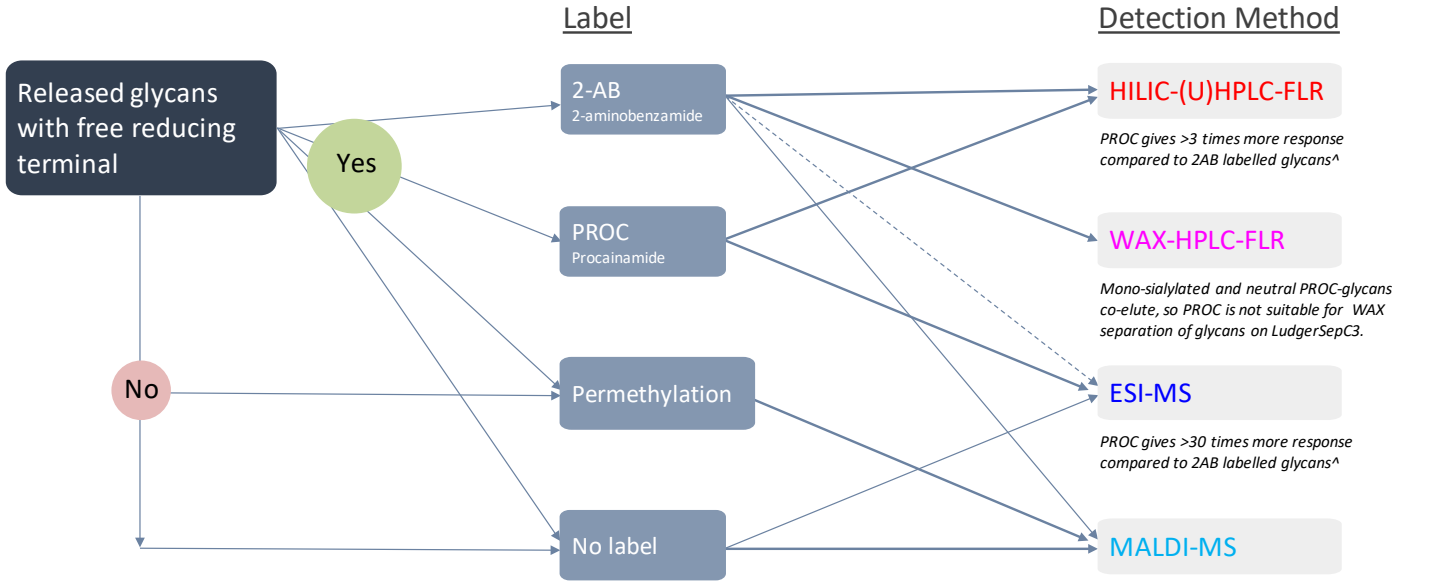
January/February 2018

Ludger 2AB Kit

We hope you enjoy reading our newsletters!
If you haven't already, please sign up to receive our e-newsletter for regular updates regarding technology.
You can do this via our website, www.ludger.com

Choosing a glycan label

Our flowchart below outlines the choices you can make when selecting a glycan label for your analytical detection method:



Labelling with 2AB or PROC is by reductive amination to the hydroxyl group on the reducing terminal of sugars.
Note that other commercially available rapid/instant labelling technologies (which use *N*-hydroxysuccinimide activated fluorophores) label the amino group formed during PNGase F release before hydrolysis of the reducing terminal of the sugar. Thus, these systems cannot be used to label any pre-released N-glycan standards or other sugars with free reducing ends such as O-glycans, GSL-glycans or GAGs.

^ Reference: Kozak RP, et al. Anal Biochem 2015, 486:38-40

Procainamide labelling kit for 96 samples

Adding to our procainamide technology range, we have developed a procainamide labelling kit suitable for 96 samples. This kit utilises sodium cyanoborohydride reductant and will shortly be available to order.

Cat # LT-KPROC-96

If ordering this kit we also recommend our sample clean up plate, LC-PROC-96 which is compatible with a vacuum manifold (see below)

For more information, please contact us: info@ludger.com

Velocity System for Sample Clean Up

Use of a vacuum manifold for sample clean up speeds up processing times. Ludger's Velocity vacuum manifold system is compatible with cartridges or plates, and is a valuable tool for your lab.

If you currently use our LC-S cartridges to clean up labelled glycans, you could try our LC-T1 cartridges with the manifold system and process 96 samples in under an hour. We have two plate systems which are compatible with the manifold system; our LC-PBM-96 plate can be used to clean up samples after treatment with endoglycosidase (PNGaseF) or exoglycosidases, and our LC-PROC-96 is designed for glycan clean up after procainamide labelling. The LC-permet-96 clean-up plate is used to enrich N-glycans prior to performing permethylation of released glycans.

The options available are summarised in the following Table:

Name	Catalogue Number	Reusable	Items required for cartridge setup	Items required for plate setup
Vacuum Manifold (Base, lid and vacuum regulator)	LC-VAC-MANIFOLD-KIT	✓	✓	✓
Vacuum Trap	LC-VACUUM-TRAP-KIT	✓	✓	✓
2 mL 96 well Collection Plate (pack of 5)	LP-COLLPLATE-96		✓	✓
Collection Plate Lid (pack of 5)	LP-COLLPLATE-2ML-LID-96		✓	✓
Cartridge Holder	LP-HOLDER-96	✓	✓	
Plugs for Cartridge Holder (pack of 12 strips of 8 plugs)	LP-PLUG-96	✓	✓	
LudgerClean T1 cartridges (pack of 6)	LC-T1-A6		✓	
LudgerClean PBM plate	LC-PBM-96			✓
LudgerClean Pre-Permethylation plate	LC-PERMET-96			✓
LudgerClean Procainamide plate	LC-PROC-96			✓

For more information, please visit our: Velocity Product page
To request a quotation please contact: info@ludger.com

Monomix standards, new pack size

Our Monomix standard, comprising 10nmol of each of six monosaccharide quantitative standards, will now be available as a 3 pack instead of single units.

Cat # CM-MONOMIX-10X3

To request a quotation please contact: info@ludger.com