

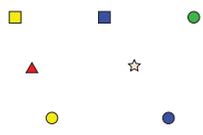
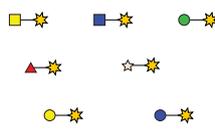
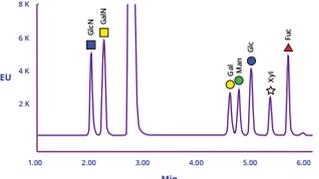
LudgerTag™ Monosaccharide Release and Labelling Kit

For the quantitative analysis of digested glycoproteins



Monosaccharide analysis is a **regulatory requirement** laid out in the ICH Q6B guidelines for the characterisation of biopharmaceuticals. This information can be used **at all stages of drug development** as a method of determining the type of glycosylation (N-linked and/or O-linked) and the extent to which glycosylation has occurred. It can also be used to demonstrate **consistency between batches** for QC lot release during the manufacturing process.

Follow the **workflow** below for **monosaccharide quantitation**.

Release	Labelling	RP-HPLC Analysis		Results
				<p>Regulatory compliance during the quality control of biopharmaceuticals:</p> <ol style="list-style-type: none"> 1) Drug safety and efficacy 2) Batch-to-batch consistency
<p>LT-MONO-96 Mild acid hydrolysis @100°C for 3h + drying for 8h</p>	<p>LT-MONO-96 2-AA @80°C for 5hrs</p>	<p>LS-R2-4.6x150 25 µL for 30 min</p>	<p>LS-UR2-2.1x50 5 µL for 8 min</p>	
		<p>LS-R-BPTX10 LudgerSep R BPT Buffer</p>		
<p>Standards & Controls (run with your samples)</p>				<p>Key Indicator</p>
<p>Quantitative Standards Included in LT-MONO-96 kit: Quantitative standard containing GlcN, GalN, Gal, Man, Glc, and Fuc CM-MONOMIX-10 Xylose quantitative standard CM-XYLOSE-100</p> <p>Recommended Positive Process Controls: Quantitative glycopeptide standard BQ-GPEP-A2G2S2-10U Fetuin Glycoprotein Standard GCP-FET-50U-X4</p>				<p>GlcN, GalN, Gal, Man, Glc, and Fuc amounts in nmol/mg of protein</p>

[Click here](#) for more information on monosaccharide quantitation or contact us at info@ludger.com.

Ludger at PEGS Europe 2023

Archana Shubhakar, Head of Business Development at Ludger, will be attending the **15th Annual PEGS Europe** in **Lisbon**, Portugal from **November 14th to 16th**.

Archana will be presenting a poster describing a comprehensive strategy for the **analysis of glycosylation**, designed to satisfy the regulatory requirements outlined by EMA, FDA and ICH Q6B guidelines and ensure the potency and clinical safety of the biopharmaceutical.

[Click here](#) for more information on this event. The poster will be **available online** after the event.

Please **contact us** if you would like to meet Archana at the event.



LudgerZyme™ Ceramide Glycanase Kit

For deglycosylation of glycosphingolip samples



Glycosphingolipids (GSLs) are the most abundant and diverse class of glycolipids in animals (and are also present in fungi, plants, and invertebrates). Glycans present in **GSLs have important roles in physiology and pathology**. The ability to identify and measure GSLs is important for research in developmental neurobiology as well as lysosomal storage diseases such as Tay-Sachs and Gaucher's disease. There is also growing interest in GSLs as possible **targets for immunotherapy**.

Ceramide glycanase is an enzyme used to **release glycans from GSLs to enable their characterisation**. It cleaves glycans including GM1, GM2, and GM3 by cleaving the β -glycosyl linkage. Glycans can then be labelled using LudgerTag labelling technology. We have purified ceramide glycanase from *Hirudo medicinalis* and offer this in a kit along with buffer and GM1 glycolipid substrate.

Follow the **workflow** below for **the analysis of GSLs**.

Release	Clean Up	Labelling	Clean Up
LZ-CER-HM-KIT	Cartridges: LC-EB10-A6 LC-EC50-24 96-well plates: LC-PBM-96 LC-EC50-96	2-AA Labelling Kits: LT-KAA-A2 LT-KAA-VP24 2-AB Labelling Kits: LT-KAB-A2 LT-KAB-VP24 LT-KAB-VP96	Cartridges: LC-S-A6 LC-S-A48 LC-T1-A6
		Procainamide Labelling Kits: LT-KPROC-24 LT-KPROC-96 LT-KPROC-VP24	96-well plates: LC-PROC-96 Cartridges: LC-S-A6 LC-S-A48

Purified labelled samples can be analysed using **LudgerSep Amide HILIC HPLC column (LS-N2-4.6x150)**.

All the products mentioned in it are part of **our catalogue** and all their corresponding technical information can be found on **our website**. If you require any further information, please contact us at **info@ludger.com**.

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