

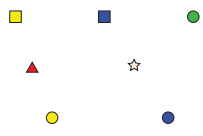
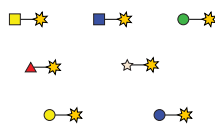
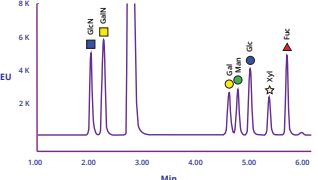
## LudgerTag™ Monosaccharide Release and Labelling Kit

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

[Click here](#) for more information on monosaccharide quantitation or contact us at [info@ludger.com](mailto: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 14<sup>th</sup> to 16<sup>th</sup>**.

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

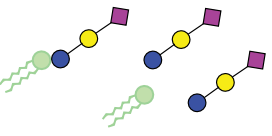


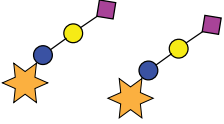
For deglycosylation of glycosphingolip samples



**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  $\beta$ -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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