



Ludger

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# LudgerPure™ 2AB Labeled Glycans

## Instruction Guide

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# LudgerPure™ 2AB Fluorescently Labeled Glycans

## Common Specifications

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<b>Application</b>	For use as standards to complement experimental labeling of free glycans with fluorescent dye.
<b>Description</b>	The sample contains approximately 100 pmol of 2AB labeled glycan with the majority of labeling reagents removed.
<b>Number of Samples</b>	Typically, 100 fmol to 10 pmol, can be detected, dependent on the sensitivity of the fluorometer, HPLC or mass spectrometer.
<b>Amount of Sample</b>	100 pmol
<b>Structural Integrity</b>	Determined by MALDI mass spectrometry and LudgerSepN1 normal phase HPLC.
<b>Labeling Selectivity</b>	Essentially stoichiometric labelling. One fluorophore molecule covalently bonded to each glycan.
<b>Detection</b>	Fluorescence detection: 360 nm excitation wavelength, 425 nm emission wavelength.
<b>Storage</b>	Store at 4 °C in the dark. Protect from sources of heat, light, and moisture. The reagents are stable for at least one year as supplied.
<b>Shipping:</b>	The product can be shipped at ambient temperature.
<b>Handling:</b>	Ensure that any glass, plasticware or solvents used are free of glycosidases and environmental carbohydrates. Use powder-free gloves for all sample handling procedures and avoid contamination with environmental carbohydrate. Glycans are provided dry and should be dissolved in purified water. Reconstituted glycans should be stored at -20 °C. Repeated freezing and defrosting should be avoided.

**For research use only. Not for human or drug use**

## Analysis of LudgerPure™ Labeled Glycans

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### HPLC Analysis

LudgerPure and LudgerTag labeled glycan mixtures may be separated and analysed by a variety of HPLC (high pressure liquid chromatography) methods including LudgerSep™ HPLC. The LudgerSep columns include the following :

Types of Analyses	Column	Cat. No.
Separation of charged and neutral glycans	LudgerSep C2	LS-C2-4.6x50
Profile analysis of neutral and charged glycans	LudgerSep N1	LS-N1-4.6x250

The LudgerSep N1 column is an especially powerful tool for the purification and analysis of LudgerTag labeled oligosaccharides from complex glycan mixtures. Please contact us for advise regarding your particular application.

### Mass Spectrometry and Electrophoresis

LudgerPure™ and LudgerTag™ labeled glycans may also be analysed by mass spectrometry, electrophoresis, and various types of spectroscopy. Please call us for advise on the dyes and analysis conditions most suitable for your intended analyses.

## Warranties and liabilities

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Ludger warrants that the above product conforms to the attached analytical documents. Should the product fail for reasons other than through misuse Ludger will, at its option, replace free of charge or refund the purchase price. This warranty is exclusive and Ludger makes no other warrants, expressed or implied, including any implied conditions or warranties of merchantability or fitness for any particular purpose.

Ludger shall not be liable for any incidental, consequential or contingent damages.

This product is intended for *in vitro* research only.

## Document Revision Number

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## Appendix 1 : LudgerTag Dyes

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The following table summarises the dyes for range of LudgerTag glycan labeling kits, their applications, and the recommended post-labeling cleanups required.

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<b>Cat. # :</b>	<b>Dye used in the Kit</b>	<b>Main Applications</b>	<b>Suggested Cleanup</b>
LT-KAA-A2	<b>2-AA (2-aminobenzoic acid)</b>	MH, OH, OE, MS	S
LT-KAB-A2	<b>2-AB (2-aminobenzamide)</b>	OH, MS	S

### Key

OH	Oligosaccharide HPLC analysis
MH	Monosaccharide HPLC analysis
OE	Oligosaccharide gel electrophoresis
MS	Mass spectrometry of oligosaccharides
S	LudgerClean S cartridges (Cat. #: LC-S-A6)

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