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## 2-AA (2-aminobenzoic acid) Labeled Glucose Homopolymer (GHP) Ladder

Cat. No. CAA-GHP-x (where x denotes pack size)

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### Structure



**Synonyms :** 2-AA labeled dextran hydrolysate ladder

**Description:** 2-aminobenzoic acid labeled glucose homopolymer ladder for use as a calibration standard for HPLC and MS analysis of glycans. The ladder contains glucose homopolymer species from degree of polymerization (dp) 1 to up to dp 16 (i.e. the glucose monomer GU1-2AA to GU16-2AA).

**Preparation :** Glucose homopolymer ladder was obtained by controlled acid hydrolysis of dextran then labeled by reductive amination at the reducing termini with the fluorescent glycan tag 2-aminobenzoic acid (2-AA).

**Form:** Dry. Dried by centrifugal evaporation from an aqueous solution.

**Purity:** > 90% pure as assessed by HPLC.

**Use:** See Certificate of Analysis for recommended sample dilution and injection volume.

**Storage:** Refrigerate (-20°C) both before and after dissolution. This product is stable for at least 5 years as supplied.

**Shipping:** The product can be shipped at ambient when dry. After dissolution, ship on dry ice.

**Handling:** Allow the unopened vial to reach ambient temperature and tap unopened on a solid surface to ensure that most of the lyophilized material is at the bottom of the vial. Gently remove the cap, add the desired volume of reconstitution medium, re-cap and mix thoroughly to bring all the oligosaccharide into solution. We recommend analytical grade pure water as the reconstitution medium. For maximal recovery of oligosaccharide, ensure that the cap lining is also rinsed and centrifuge the reconstituted vial briefly before

use. Ensure that any glass, plastic ware or solvents used are free of glycosidases and environmental carbohydrates.

**Safety:** This product is non-hazardous and has been purified from natural sources certified to be free of all hazardous material including pathogenic biological agents.

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

## **Warranties and liabilities**

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 warranties, 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 # 'CAA-GHP-Guide', revision 1.1

## Certificate of Analysis

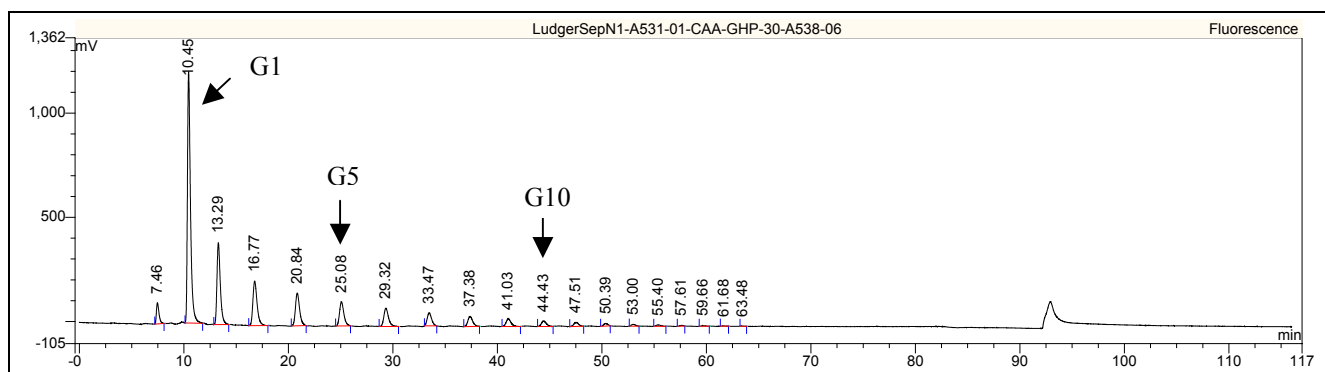
### LudgerPure™ 2AA Labeled Glucose Homopolymer

Cat. # : CAA-GHP-30

Lot # : A538-06

Size : approx. 1 nmol of G1

**Purity:** > 95% pure as assessed by HPLC (see Fig 1)



**Figure 1 : LudgerSepN1 HPLC Profile of 2AA Labeled Glucose Homopolymer (Cat. #: CAA-GHP-30, Lot No. A538-06).**

#### HPLC Running Conditions

Column: LudgerSep N1 Amide (Cat. no. LS-N1-4.6x250) Flow: 0.4 ml/min Temperature: 40 °C

Solvent A: 100 % acetonitrile Solvent B: 250 mM ammonium formate pH 4.4

Gradient:

- 0-75 min - 35-65 % B
- 75-80 min - 65-100 % B
- 80-83 min 100 % B
- 83-85 min - 100-35 % B
- 85-115 min 35 % B

Detector: Jasco FP920

Excitation wavelength: 360 nm

Emission wavelength: 425 nm

#### Sample Dilution

Redissolve CAA-GHP-30 in 300 µl analytical grade water. Approximately 10 µl of reconstituted sample is used per hplc run. Inject 10 µl GHP with 60 µl acetonitrile and 20 µl water.