



# GalactEXO™

Immobilized

STORE AT

**+4-8°C**



FOR RESEARCH USE ONLY

## Instructions for Use

**GalactEXO™ Immobilized**

**Microspin 5 × 0.5 mg (G1-GM6-025)**

Process 5 × 0.5 mg glycoprotein

**GalactEXO™ Immobilized**

**Microspin 10 × 0.5 mg (G1-GM6-050)**

Process 10 × 0.5 mg glycoprotein





## Preparations

### Important Information

- Use lids and bottom caps during the incubation.
- Before centrifugation, remove the bottom cap and loosen the lid (do not remove the lid).

### Additional Materials Required

- Reaction buffer: 20mM Tris pH 6.8.<sup>1,2</sup>
- Microcentrifuge tubes (1.5-2 ml)

1. GalactEXO Immobilized displays high activity in buffers with pH 5.5-7.5, and over a wide range of ionic strengths (0-500mM NaCl). Optimization might be required if a buffer other than the recommended reaction buffer is used.
2. If the glycoprotein sticks to the resin, a buffer with higher salt concentration can be used in the reaction and/or in the wash steps.

## Hydrolysis of $\beta$ 1-3,4-linked Galactose in Spin Columns

### Sample Preparation

Prepare the glycoprotein in 100-300  $\mu$ l reaction buffer per column. Use 0.5 mg of glycoprotein per column.

#### 1. Equilibration

- 1.1 Break off the bottom cap of the column (save the cap) and place the column in a microcentrifuge tube. Loosen the lid.
- 1.2 Centrifuge at 200  $\times$  g for 1 min to remove the storage solution. Discard the flow-through.
- 1.3 Equilibrate the column by adding 300  $\mu$ l reaction buffer and centrifuge at 200  $\times$  g for 1 min. Discard the flow-through.
- 1.4 Perform step 1.3 two additional times.
- 1.5 Insert the bottom cap.

#### 2. Enzymatic Reaction

- 2.1 Add the glycoprotein in a volume of 100-300  $\mu$ l reaction buffer. Use 0.5 mg glycoprotein per column.
- 2.2 Seal the column with the lid.
- 2.3 Fully suspend the media, mix by inversion and make sure there is a flow in the column.
- 2.4 Incubate the column with end-over-end mixing at room temperature for 30-60 min<sup>3</sup>.

#### 3. Collection of Processed Material

- 3.1 Remove the bottom cap and place the column in a new microcentrifuge tube. Loosen the lid.
- 3.2 Centrifuge at 1000  $\times$  g for 1 min to recover the processed material.

#### 4. For Maximum Recovery of the Sample

- 4.1 Insert the bottom cap.
- 4.2 Add 100  $\mu$ l reaction buffer.<sup>2</sup>
- 4.3 Seal the column with the lid and invert it a couple of times.
- 4.4 Remove the bottom cap and place the column in a new microcentrifuge tube. Loosen the lid.
- 4.5 Centrifuge at 1000  $\times$  g for 1 min to collect the processed material.
- 4.6 Repeat steps 4.1-4.5.
- 4.7 Pool the collected fractions, including the sample from step 3.2.

3. Longer incubation times may be required depending on the glycoprotein.



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