

Status: Currently Official on 13-Feb-2025  
Official Date: Official Prior to 2013  
Document Type: Reagents  
DocId: GUID-D14DD9EF-9E89-45F6-B7CA-EF056C0D68C9\_1\_en-US  
DOI: [https://doi.org/10.31003/USPNF\\_R2119\\_01\\_01](https://doi.org/10.31003/USPNF_R2119_01_01)  
DOI Ref: 4e6xe

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## Beta Lactose

( $\beta$ -D-Lactose),  $C_{12}H_{22}O_{11}$  342.30—White to faint yellow powder. The  $\alpha$ -D-lactose content is not more than 35%.

**Assay:** Inject an appropriate derivatized specimen into a gas chromatograph (see [Chromatography \(621\)](#)) equipped with a flame-ionization detector, helium being used as the carrier gas. The following conditions have been found suitable: a 0.25-mm  $\times$  30-m capillary column coated with a 1- $\mu$ m layer of phase G43; the injection port temperature is maintained at 250°; the detector temperature is maintained at 250°; the column temperature is maintained at 20° and programmed to rise 8° per minute to 280°. The area of the  $C_{12}H_{22}O_{11}$  peak is not less than 99% of the total peak area.

**Auxiliary Information** - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
BETA LACTOSE	<a href="#">Margareth R.C. Marques</a> Principal Scientific Liaison	HDQ Headquarters

**Most Recently Appeared In:**

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