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## Alpha Lactose Monohydrate

( $\alpha$ -D-Lactose Monohydrate),  $C_{12}H_{22}O_{11} \cdot H_2O$  360.31—White powder. The  $\beta$ -D-lactose content is less than 3%.

**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 G2; the injection port temperature is maintained at 250°; the detector temperature is maintained at 280°; the column temperature is maintained at 230° and programmed to rise 4° per minute to 280°. The area of the  $C_{12}H_{22}O_{11} \cdot H_2O$  peak is not less than 97% of the total peak area.

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

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

**Most Recently Appeared In:**

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