

Inhalation

Lactohale[®] 206

A milled alpha-monohydrate lactose without fines



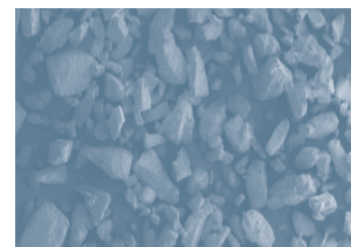
Lactohale[®] 206 is a coarse milled alpha-monohydrate lactose where the fine lactose particles have been removed. The coarse milled lactose grade could be used in application where a good flow is required. Customers can further optimise the inhaled formulation for flow and deposition by blending with one of the fine grades of DFE Pharma (for example with Lactohale[®] 210, 220, 230 or 300). Lactohale[®] 206 is therefore especially of interest for formulators who are in early stage of development process or others who want to explore the design space of their formulation. Lactohale[®] 206 is produced in Borculo, the Netherlands. This inhalation-grade lactose is available as a standard grade or can be customised on request, to meet your specific requirements for your DPI formulation.

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dfepharma.com/productfinder



Lactohale® 206

Benefits



Quality by Design approach to Dry Powder Inhalation formulation

Lactohale® 206 can be easily applied to a Quality by Design approach that allows customers to model the flow and the performance for their Dry Powder formulation. Below, examples of blends of Lactohale® 206 with different fine Lactohale grades, are shown. The particle size distribution graphs (figure 1, 2 and 3) illustrate the result. Mixing with the finest lactose grades will have a significant impact on the deposition while blending with a slightly coarser fine grade, like Lactohale® 210, the cohesiveness is increased.

Good flow

Lactohale® 206 is inhalation grade lactose with a good flow.

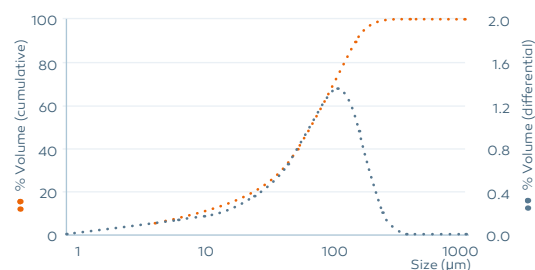


Figure 1 Particle size distribution profile of a blend of Lactohale® 206 with Lactohale® 210.

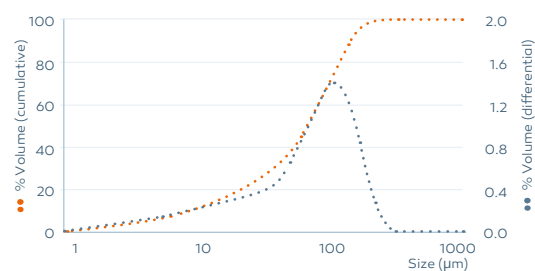


Figure 2 Particle size distribution profile of a blend of Lactohale® 206 with Lactohale® 220.

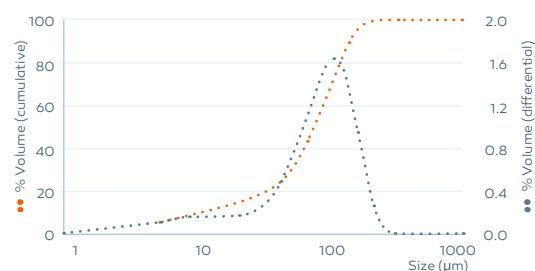


Figure 3 Particle size distribution profile of a blend of Lactohale® 206 with Lactohale® 230.

Facts

Typical product data

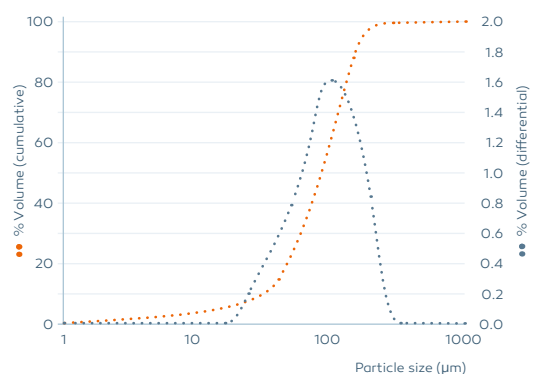
Complies with Ph.Eur., USP-NF and JP
Lactose mono hydrate monograph

	Typical values		
	Tapped density (g/l)	Poured density (g/l)	Carr's Index
Lactohale® 206	870	720	17%

	Particle Size Distribution specification (Sympatec)		
	D10 (µm)	D50 (µm)	D90 (µm)
Lactohale® 206	20-50	75-95	115-170

Packaging

	Cardboard box NL [AL/PE liners]
Weight of product	20 kg
Shelf life	3 years



In pursuit of excipient excellence