



Lactopharm

**LACTOSE
FOR GRANULATION,
CAPSULES & DIRECT COMPRESSION**





LACTOPHARM CRYSTALLINE POWDER

(Lactose monohydrate)



Lactose ($C_{12}H_{22}O_{11}$) is a naturally occurring milk sugar disaccharide composed of one galactose and one glucose molecule.

LactoPharm (Lactose Monohydrate) is used in the pharmaceutical industry as an excipient filler or binder for tablets and diluent powder for capsule fillings.



Main Properties

- Good compactability
- Low hygroscopicity
- Compatible with the majority of APIs
- Compatible with other excipients
- High physical and chemical stability
- Water solubility
- Cost-effectiveness
- Largely available
- No bitter taste



Particle Size Distribution Comparative Table

PARTICLE SIZE DISTRIBUTION		LACTOPHARM CRYSTALLINE POWDER GRADES			
		200	FP	200-AG	80-B
Retained on (%)	180 μ m (80 mesh)	0-5			
	150 μ m (100 mesh)	0 - 10			
	75 μ m (200 mesh)	10 - 30			
Pass Through (%)	350 μ m (45 mesh)				95 - 100
	250 μ m (60 mesh)	99 -100			70 - 100
	150 μ m (100 mesh)		98 - 100		30 - 80
	100 μ m (150 mesh)	83 -100		90 - 100	
	75 μ m (200 mesh)		80 - 100		10 -35
	53 μ m (270 mesh)		55 - 80		
	45 μ m (325 mesh)	48 - 65			
	32 μ m (400 mesh)			45 - 75	



LACTOPHARM SPRAY-DRIED*

(Lactose Monohydrate)

LactoPharm Spray-Dried is a lactose monohydrate modified for direct compression tableting and capsule filling.

Main Properties

- Free-flowing
- Excellent compactability
- Uniform and stable content in API low-dosage forms
- Water solubility
- High physical and chemical stability

Multiple particle size distributions of **LactoPharm Spray-Dried** were developed for better performance in specific tableting applications. The grades flow differently, allowing the regulation of the operational speed of capsule filling machines and control of the tablet presses to avoid weight variation of tablets.

Particle Size Distribution Comparative Table

PARTICLE SIZE DISTRIBUTION		LACTOPHARM SPRAY-DRIED GRADES		
		SD	100-SD	11-SD
Retained on (%)	600 µm (30 mesh)	0		
	250 µm (60 mesh)	0 - 0.5		
	106 µm (140 mesh)	30 - 60		
	75 µm (200 mesh)	55 - 80		
Pass Through (%)	250 µm (60 mesh)			98 - 100
	200 µm (70 mesh)		80 - 100	
	100 µm (150 mesh)		20 - 45	30 - 60
	45 µm (325 mesh)			0 - 15
	32 µm (400 mesh)		0 - 10	

*Manufacturing Site: Campinas, SP - Brazil



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