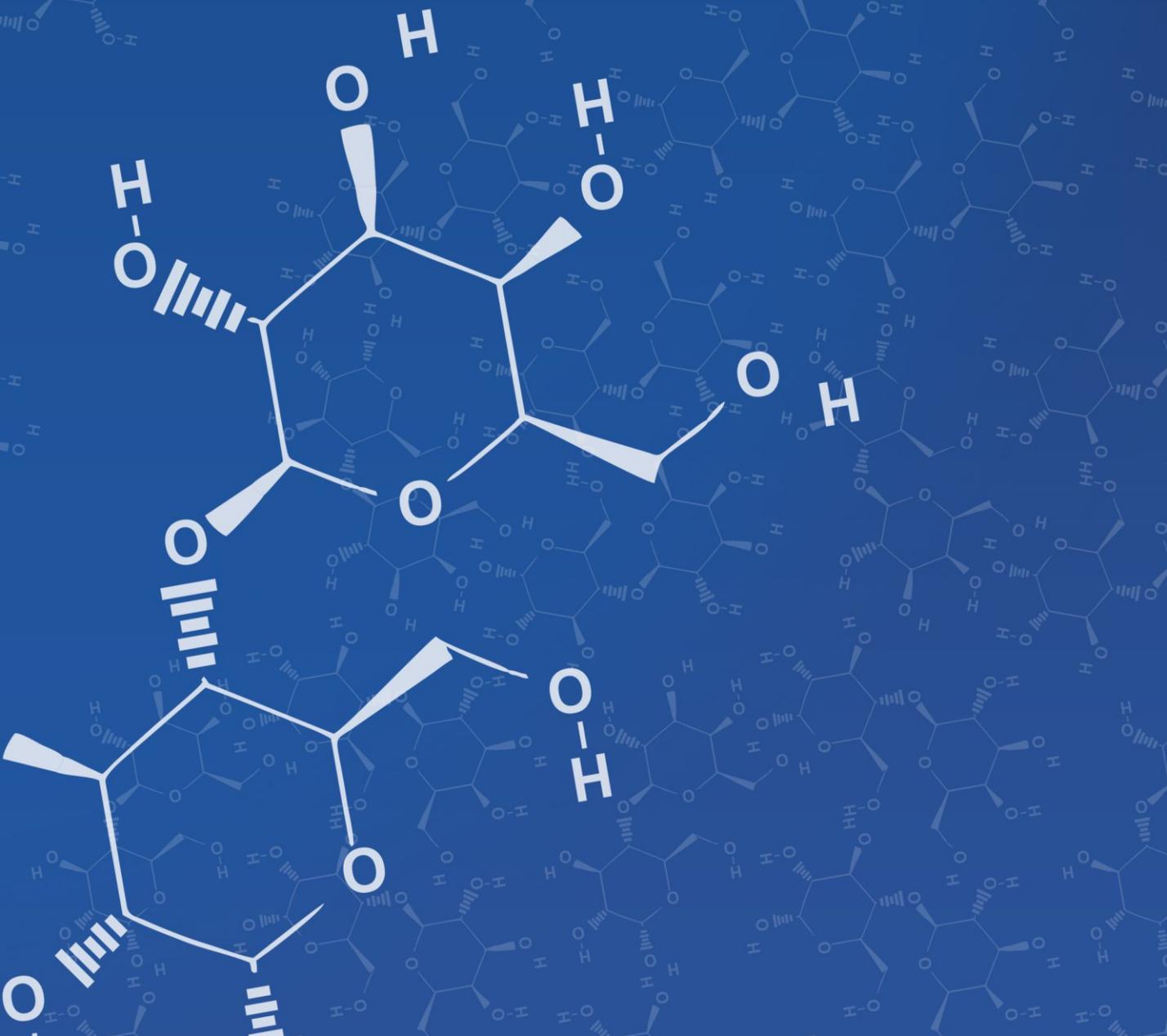




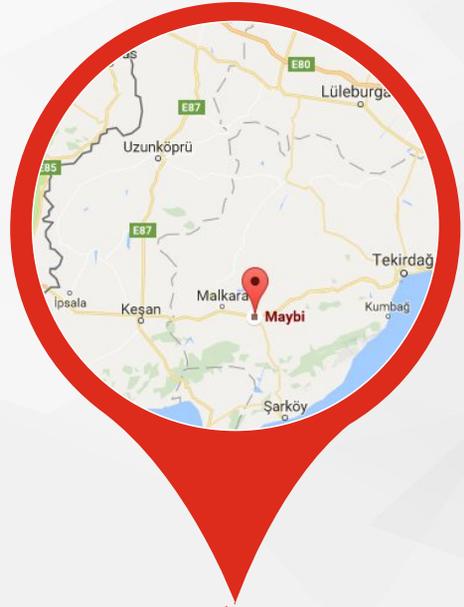
Your Trusted Partner in **LACTOSE**





Maybi is a leading dairy ingredients manufacturer from Turkey, was founded in 1993. From its foundation to present, Maybi successfully processed raw milk and whey into an industrial and ecological ingredient by utilizing the latest technology. In 2012 Maybi entered pharma sector by starting the production of pharma grade lactose monohydrate first time in Turkey. The production plant is located west side of Turkey in Thrace Region at the city of Tekirdağ.

With the experience of more than 10 years in the excipient industry, Maybi is the leader and the first manufacturer of pharma grade lactose in Turkey. Maybi continues to expand in the international market as the company's mission is to grow a successful business model in both domestic and international market.



- Trakya Region European Side of Türkiye
- Factory Location Malkara District Tekirdağ City





LACTOSE GENERAL OVERVIEW

Lactose is a disaccharide of glucose and galactose obtained from the whey fraction of bovine milk.

Pharma Grade Lactose Monohydrate is a specific form of lactose that is used extensively in the pharmaceutical industry due to its particular properties and high purity.

PHARMA GRADE LACTOSE MONOHYDRATE

- **Chemical Composition** Lactose Monohydrate is a disaccharide sugar consisting of glucose and galactose, with one molecule of water of crystallization (H_2O) associated with each molecule of lactose.
- **Physical Appearance** It is typically a white, crystalline powder.
- **Purity** As a pharmaceutical grade product, it meets rigorous standards for purity and is manufactured to be free from contaminants and impurities.



USAGE AREAS

Tablet and Capsule Manufacturing

- **Diluent:** Lactose Monohydrate is commonly used as a diluent in the manufacture of tablets and capsules. It helps in achieving the required volume and weight of the tablets or capsules.
- **Binder:** It also acts as a binder in tablet formulations, contributing to the cohesion of the tablet's ingredients and improving its mechanical strength.

Oral Suspensions and Solutions

- **Stabilizer:** In oral suspensions, lactose monohydrate can help to stabilize the formulation, maintaining consistency and preventing sedimentation of the active ingredients.

Nutritional Supplements

- **Base Ingredient:** In dietary supplements, it is used as a base or filler due to its excellent compatibility with other ingredients.

Specialty Formulations

- **Custom Uses:** It can be incorporated into specialized formulations where high purity and specific physical properties are required.

Advantages

- **Consistency:** Provides consistent performance in pharmaceutical formulations due to its well-defined properties.
- **Compatibility:** Works well with a variety of active ingredients and other excipients.
- **Flowability:** Its crystalline structure contributes to good flow properties, which is particularly beneficial in tablet and capsule production.



MAYBI LACTOSE MONOHYDRATE

Maybi offers Pharma Grade Lactose Monohydrate with various types of Mesh Size:

	Maylac 80	Maylac 100
Pharmacopeial Standards	Usp BP EP	Usp BP EP
Partical Size Distribution		
<32 μm	-	NMT %10
<100 μm	NMT %20	%20-45
<200 μm	-	NLT %80
<250 μm	%70-90	-
<315 μm	%95-100	-
Bulk Density (g/L)	700	650
Tapped Density (g/L)	850	800
Specific Optical Rotation Degree	(+54.4) - (+55.9)	(+54.4) - (+55.9)

	Maylac 200	Maylac 400
Pharmacopeial Standards	Usp BP EP	Usp BP EP
Partical Size Distribution		
<32 μm	-	%80-90
<45 μm	%44-72	%98-100
<100 μm	%85-97	-
<150 μm	%96-100	-
<250 μm	%98-100	-
Bulk Density (g/L)	600	350
Tapped Density (g/L)	750	600
Specific Optical Rotation Degree	(+54.4) - (+55.9)	(+54.4) - (+55.9)



ADVANTAGES OF MAYBI LACTOSE MONOHYDRATE

High Compatibility works well with a variety of active ingredients and other excipients

High Purity

Physically and chemically stable

High degree of crystallinity, low amorphous content

High Consistency

Good Flowability

Stability

APPLICATIONS

Lactose monohydrate is typically used for wet or dry granulation. During wet granulation, liquid binders or adhesives are added to the lactose and active mixture, usually by blending. The mixture is then dried and sized, and compressed into tablets. During dry granulation, the particle size is enhanced by aggregating the particles by roller compaction and then milling to the desired size.

- **Wet Granulation**
- **Dry Granulation**
- **Tablets**
- **Sphere Applications**

QUALITY IS OUR PRIORITY

The manufacturing plant of Maybi is located on 97.250 m² open and 32.000 m² closed area.

In total 250 people are working in Maybi and 20 of them who are experienced in Pharma Excipients working for producing the Pharma Grade Lactose Monohydrate.

The production plant of Maybi is manufacturing under the ISO 22000, 27001, 9001 and BRC quality systems.

In addition, Maybi branded products are approved by authorized Halal and Kosher Councils.

- **IPEC Member**
- **All process is validated and fully traceable**
- **Batch to batch consistency**
- **Fluid bed technology for drying**
- **Confirms Pharma Standards of EP/BP/USP grades**





Your Trusted Partner in **LACTOSE**

Head Office:

Seyhli Mah. Kaynarca Cad. No:3 34906
Pendik / İstanbul / TÜRKİYE
Phone : +90 216 378 37 65 Pbx
Fax : +90 216 378 28 61

Factory:

Alaybey Mahallesi Köy yolu 1, Sokak No: 9/2-1
Merkez P.K. 59300 Malkara - Tekirdağ / TÜRKİYE
Phone : +90 282 437 71 71 Pbx
Fax : +90 282 437 71 81