



BIOSOLUTIONS: PHARMA DEXTROSE MONOHYDRATE



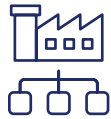
ADM is a global leader delivering sustainable biomaterials solutions for pharmaceutical excipient applications.



ADM BioSolutions is a leading global supplier of biobased raw materials, ingredients and solutions.



ADM's global presence makes us a resourceful leader in the industry.



ADM BioSolutions is a reliable and credible supplier of plant based functional solutions.



ADM has built extensive market knowledge, manufacturing expertise and most importantly, customer trust.

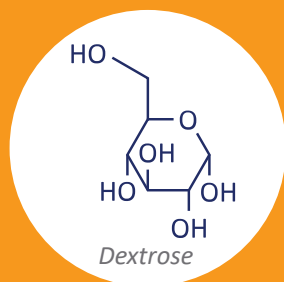
Change Drivers & Data (EHS/Regulatory/Manufacturing/Sustainability)

Growing awareness of their own environmental footprint, consumers increasingly demand sustainable and plant-based solutions without compromising quality and performance benefits.

ADM's portfolio of plant-based ingredients are of consistent quality, high performance and enable customers to deliver products with increased plant-based ingredient levels.

For the most complex problems, ADM's technical experts can provide you guidance on scale up and formulation solutions. We can also help you access the most up-to-date regulatory guidance and share our take on market trends and opportunities—all to ensure your success.

Dextrose MonoHydrate is part of ADM's nutritive sweeteners and starches.



Product Offering

Dextrose monohydrate is produced by enzymatic hydrolysis of starch, followed by purification, concentration, crystallization and drying. It is a white calibrated powder with a refreshing sweet taste and bland odor. DMH complies with the requirements of EU and the Country of manufacturing Directives and Regulations in force on foods and food ingredients and is considered Non-GMO. Dextrose (also known as glucose) is a simple sugar that comes from corn, wheat and other botanical sources, like fruits and honey. It is a versatile ingredient found virtually everywhere in products including pharmaceutical applications. The broad range of products that use dextrose speaks to its unique functionality and benefits, beyond its sweetness.

Key Value Proposition & USP

Dextrose (C₆H₁₂O₆), is widely used in the pharmaceutical industry for several reasons.

Binder - Dextrose is used as a binder to formulations providing cohesiveness to dry powders enabling creation of tablet.

Nutrient - as an excipient, dextrose may be dissolved and provided to patient that require additional calories for energy for example in dialysis treatment or parenteral malnutrition.

Carrier - Dextrose can also be used as a medium for other injectable medicines.

As with many saccharides, Dextrose can be produced in two stereo-isomers. However only D-glucose is naturally occurring and can be metabolized. The mirror image of the molecule, L-glucose, cannot be metabolized by cells in process known as glycolysis.

Application Areas



Filler or binder for tablets



Carbohydrate source

- Malnutrition treatment
- Hypoglycemia treatment

Dextrose Properties



4 kcal/g



Relative sweetness
~75 vs sucrose

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