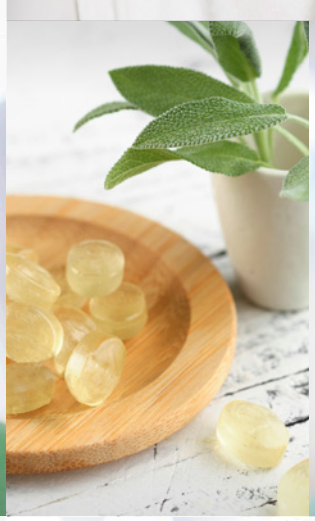







galenIQ™ – the sweet filler binder.

Isomalt (Ph. Eur., BP, USP-NF, JP).

beneo

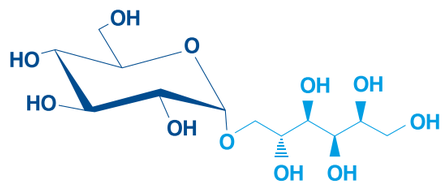
galenIQ™ makes medicine taste better.

Choosing the right filler-binder can enhance the overall taste and mouthfeel of pharmaceutical and nutraceutical products. Medicine that taste good can considerably increase the acceptance by certain patient groups like children, the elderly and people with chronic conditions. It is also of importance in the growing field of veterinary medicine. With its pleasant mouthfeel and sugar-like, sweet taste, galenIQ™ enhances the palatability of pharmaceutical and nutraceutical formulations.

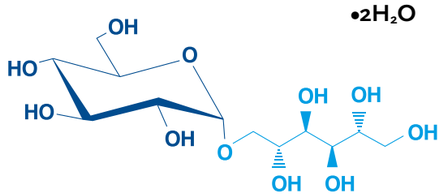
galenIQ™ is Isomalt, a polyalcohol, which BENEO manufactures from a plant-based raw material: sucrose extracted from the sugar beet.

BENEO closely monitors the global regulatory framework and actively invests in research and development to strengthen the scientific foundation of galenIQ™. Thanks to being produced in a fully owned, state-of-the-art facility, our excipient complies with the highest quality and safety standards. galenIQ™ is manufactured under cGMP conditions according to the IPEC-PQG requirements for pharmaceutical bulk excipients. galenIQ™ complies with the current Ph. Eur., BP, USP-NF and JP monographs for Isomalt and is approved for use in China.

Structural formula of Isomalt, composed of two disaccharide alcohols.



6-O-α-D-Glucopyranosyl-D-sorbitol (1,6-GPS)



1-O-α-D-Glucopyranosyl-D-mannitol dihydrate (1,1-GPM)

The excipient of choice for a broad spectrum of applications.

Chewable Tablet

Sachet / Stick Pack

Powder Blend

Lozenge Tablet

Probiotic Tablet

Mini Tablet

Effervescent Tablet

Wet Granulation

High Boiled Lozenge

Oil Carrier

Pan Coating

Syrup

Plant extract tablets

Nutraceutical formulations

DC Tablets

Sweet functionality.

Palatability enhancement

High flowability

Chemically and mechanically stable

Water soluble

From plant-based raw material

Filler-binder

High content uniformity

Long shelf life

Easy to use

Non hygroscopic

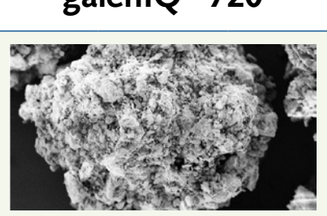
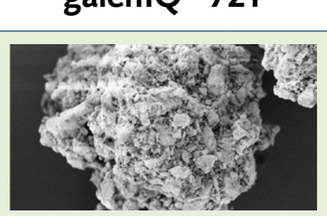
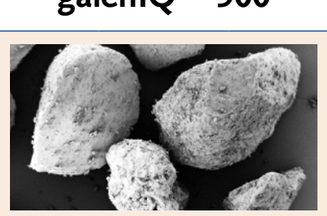
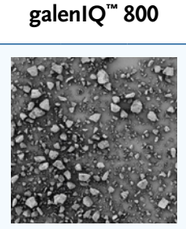
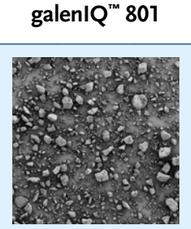
High compressibility

LOW & HIGH DOSE

$(O-O)^{2-}$ PEROXIDE FREE

SUGAR FREE

Physical properties* of galenIQ™.

	galenIQ™ 720	galenIQ™ 721	galenIQ™ 900	galenIQ™ 800	galenIQ™ 801	galenIQ™ 960	galenIQ™ 981
							
Particle type	*agglomerated*	*agglomerated*	*sieved*	*milled*	*milled*	*sieved*	*sieved*
Preferred application	**direct compression, powder blend**	**direct compression, powder blend**	**high-boiled lozenge**	**wet granulation, agglomeration**	**High-shear granulation, Fluid bed agglomeration**	**capsule filling, dry blend, hot melt extrusion**	**pan coating, syrup**
Composition GPS/GPM	1:1	3:1	1:1	1:1	3:1	1:1	3:1
Solubility in water at 20 °C (g/100 g)	25	42	25	25	42	25	42
Particle size distribution (µm)	d_{10} 95 / d_{50} 220 / d_{90} 360	d_{10} 90 / d_{50} 210 / d_{90} 360	d_{10} 660 / d_{50} 1510 / d_{90} 2560	d_{10} 5 / d_{50} 15 / d_{90} 45	d_{10} 5 / d_{50} 15 / d_{90} 45	d_{10} 270 / d_{50} 400 / d_{90} 530	d_{10} 260 / d_{50} 520 / d_{90} 800
Method	mechanical sieve shaker	mechanical sieve shaker	mechanical sieve shaker	laser diffraction	laser diffraction	mechanical sieve shaker	mechanical sieve shaker
Bulk density (g/l)	410	400	850	500	500	820	780
Total water K. F. (%)	5,0	2,9		2,7	2,6	2,3	2,8
Loss on drying (%) (10^5 pa, 7 h at 25 °C)	0,21	0,12		0,26	0,21	0,12	0,02

* This information on average values is presented in good faith, but warranty to accuracy of results is not given. It is offered solely for your consideration, investigation and verification. Typical analysis data fall within the range of specification of galenIQ™.

BENEO offices and production sites.

Contact us at a BENEO location.
www.beneo.com/locations

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www.galenIQ.com

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