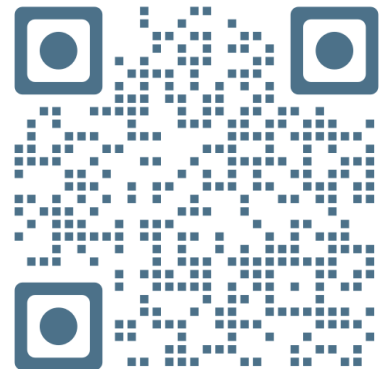


YOUR ORAL SOLID DOSE

DFE Pharma globally supplies a unique, broad portfolio of key excipients including lactose, MCC, superdisintegrants and starches. Innovative products such as SuperTab® 50 ODT and SuperTab® 40LL are supported by highly appreciated, local technical support. Contact DFE Pharma for your Oral Solid Dose.



Scan the QR code to know more about
our OSD portfolio or log on to:

www.dfepharma.com

We are DFE Pharma

We are DFE Pharma: the global leader in excipient solutions.

We develop, produce and supply functional excipients for use in biopharmaceutical, inhalation and oral solid dose formulations, but as a supplier of excipients we do a lot more than that.

We work closely with pharmaceutical companies around the world, collaborating in original research, supporting their go to market strategies and fine-tuning our products to ensure that their medicines deliver exactly the right outcomes for patients.

We are a true partner to the pharmaceutical industry, helping people around the world live healthier lives.

We have spent more than 100 years in proving that excellence is not just a word but a deep, long-term commitment to our customers and to the millions of patients who use our products every day.

Our customers respect us for product quality, technical expertise and hands-on market support. Our portfolio consists of filler/ binders (Lactose, Microcrystalline Cellulose and Starches) and superdisintegrants (Croscarmellose Sodium and Sodium Starch Glycolate) for oral solid dose, carriers for inhalation (Lactose) and excipients for biologics (non-reducing sugars).

Recent developments in the field of biologics provide unique therapy options for many of the world's most challenging diseases. Biologics offer distinct advantages over small molecules, however are far more complex to develop, manufacture and distribute.

Unlike taking medications orally or via inhalation, introducing a drug into the body by parenteral administration poses greater risk, since the body's natural defenses are bypassed. As such, they must be exceptionally pure and free from physical, chemical and biological contaminants.

Similar requirements are applicable for the excipients: high purity, low endotoxin, for which DFE Pharma has a specific portfolio of excipients: BioHale®

Your medicines, our solutions. Moving to a healthier world.

Your Oral Solid Dose

by DFE Pharma

We believe that we contribute to our customers' success by providing market driven solutions which enhance their effectiveness and efficiency. Everything we do aims to contribute to these two aspects in the daily lives of our customers.

Pharmaceutical excipients are used in many ways to produce tablets, capsules, inhaled products, injectables, and sachets. All with their different demands. Tablets, capsules, and sachets are the most common Oral Solid Dosage Forms and commonly produced by:

- o Wet granulation
- o Dry granulation
- o Direct compression
- o Roller compaction
- o Continuous manufacturing

DFE Pharma offers a range of filler binders and disintegrants for all applications.

Benefit from global regulatory support

At DFE Pharma we look to support our customers in efficiently navigating the regulatory space. With pharma focus and over 100 years of expertise in our excipients, we provide support on a number of levels including: US & Chinese DMFs, test methodologies, guidance on IIDs, UNII, ICHQ3D and QbD. Our most commonly requested documents are freely accessible, through our website www.dfepharma.com.

De-risk your formulations by using DFE Pharma excipients

At DFE Pharma we help de-risk the use of our excipients, in line with QbD (ICH Q8/9), by:

- creating batch-to-batch consistent and reproducible products
- providing insights in FRC's (EP) and/or CMA's (USP)

Variation / changes in excipients physicochemical & functional properties might have an impact on the performance of the final dosage form.

Consistent functional excipients with a low batch-to-batch variability minimize the risk of failure in a worldwide setting.

Choosing the right supplier can also have a significant impact in nitrosamine risk mitigation. Nitrite levels in the vast majority of DFE Pharma portfolio are safely <0.1ppm (i.e., below the limit of the quantification of the analytical method). Nitrite content in MCC and lactose products from DFE Pharma is at least 7 and 5 fold lower, respectively, than industry average.

Your partner in sustainability

Guided by our purpose, "Your medicines, our solutions. Moving to a healthier world," we prioritize sustainability across our business. DFE Pharma is dedicated to collaborating throughout our value chain to improve environmental, social, and governance (ESG) performance. With ambitious environmental targets and an enhanced social program, we aim to reduce our environmental impact and contribute positively to the societies in which we operate.

Our efforts in sustainability have been recognized with an Ecovadis Gold Medal in 2024.

Overview of all DFE Pharma OSD grades

			Dosage form				Process techniques		
			Tablets	Capsules	Sachets	Spheres	Direct Compression	Wet Granulation	Dry Granulation
Lactose	Sieved lactose	Pharmatose® 50M		•	•				
		Pharmatose® 60M		•	•				
		Pharmatose® 70M		•	•				
		Pharmatose® 80M		•	•				
		Pharmatose® 90M		•	•				
		Pharmatose® 100M	•	•	•				
		Pharmatose® 110M	•	•	•				
		Pharmatose® 125M	•	•	•				
		Lactochem® Coarse Crystals		•	•				
		Lactochem® Crystals	•	•	•				
		Lactochem® Fine Crystals	•	•	•				
	Milled lactose	Pharmatose® 130M	•	•	•	•		•	
		Pharmatose® 150M	•			•		•	
		Pharmatose® 200M	•			•		•	
		Pharmatose® 300M	•			•		•	
		Pharmatose® 350M	•			•		•	
		Pharmatose® 450M	•			•		•	
		Lactochem® Coarse Powder	•	•	•	•		•	
		Lactochem® Regular Powder	•			•		•	
		Lactochem® Powder	•			•		•	
		Lactochem® Fine Powder	•			•		•	
		Lactochem® Extra Fine Powder	•			•		•	
		Lactochem® Super Fine Powder	•			•		•	
	Spray dried lactose	SuperTab® 11SD	•	•	•		•		
		SuperTab® 14SD	•	•	•		•		
		Lactopress® Spray Dried	•	•	•		•		
		Lactopress® Spray Dried 250	•	•	•		•		
	Anhydrous lactose	SuperTab® 21AN	•	•			•		•
		SuperTab® 22AN	•	•			•		•
		SuperTab® 23AN	•	•			•		•
		SuperTab® 24AN	•	•			•		
		Lactopress® Anhydrous	•	•	•		•		•
		Lactopress® Anhydrous Powder	•	•	•				•
		Lactopress® Anhydrous Fine Powder	•	•					•

Overview of all DFE Pharma OSD grades

			Dosage form				Process techniques		
			Tablets	Capsules	Sachets	Spheres	Direct Compression	Wet Granulation	Dry Granulation
	Granulated lactose	SuperTab® 30GR	•	•	•		•		
		Lactopress® Granulated	•	•	•		•		
	ODT lactose	SuperTab® 50 ODT	•				•		
	Specialty lactose	Lactochem® Regular Powder Low Endotoxin	•			•		•	•
	MCC	Pharmacel® 101	•	•		•		•	•
		Pharmacel® 102	•	•			•		
		Pharmacel® 112	•	•			•		•
Co-processed		Pharmacel® sMCC90	•	•			•	•	
		SuperTab® 40LL	•				•		
Superdisintegrants		Primojel®	•	•		•	•	•	•
		Primellose®	•	•		•	•	•	•
Starch		Solani Amylum	•	•		•		•	
		Prejel PA5 PH	•	•				•	

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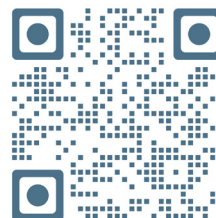
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Your medicines, our solutions.
Moving to a healthier world.



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