

DELIVERING CONFIDENCE WITH THE RIGHT PARTNER

ORAL DOSAGE OVERVIEW

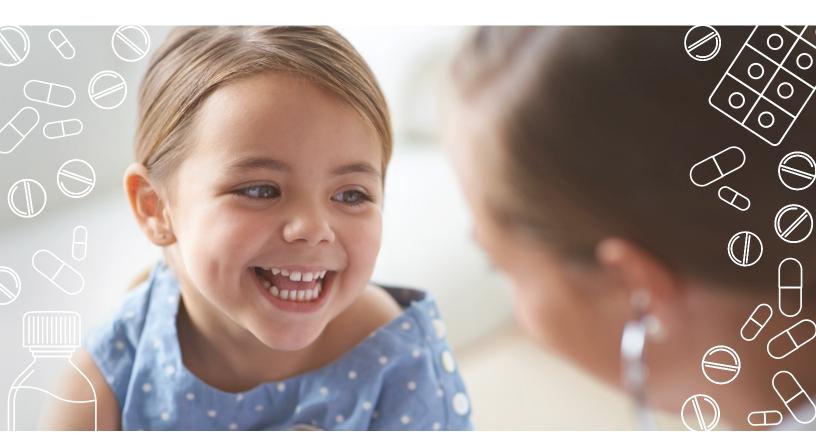




The safety of your patients is your number one priority. That's why the quality and stability of your formulations is ours.

From oral dosage and biopharma materials to injectables and dialysis solutions, we hold ourselves to the highest industry standards – providing consistency and reliability across every ingredient.

For over 40 years, we've been supplying industry-leading, plant-based excipients and raw materials. Our expertise and technical resources are never far away, with three innovation centers of excellence located worldwide (France, U.S., and Singapore). We continually evolve our service offering to meet our customer demands.



OUR LEGACY



Technical expertise is empowered by our diverse global Research and Development network.

For years, Roquette has been the market and technical leader in starches and polyols, with over 60 patents and new product launches. Now we are expanding to other excipient chemistries to provide unique solutions to the technical challenges you face.

OUR MISSION



Provide technical expertise

to all stages of pharmaceutical development



Instill in our customers a sense of confidence

by delivering world-class ingredients and raw materials



Remain consistent in our ability to help customers

develop and elevate life-saving pharmaceuticals



UNCOMPROMISED EXPERTISE

For decades, we've been providing technical service expertise supported by our signature lab in Lestrem, France. In 2017, we opened a 750 sq. ft. facility in Singapore, and we are growing our capabilities in the United States. Ask us about your specific project for excipient solutions and robust application support.



SUSTAINABLE SUPPLIER

By encouraging local supply, using geothermal energy sources, and optimizing means of transportation, we combine economic profitability with a low environmental footprint.



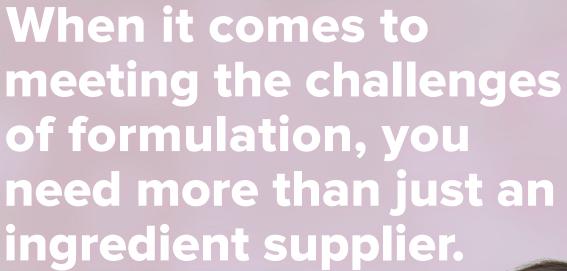
ENDURING QUALITY

Roquette quality systems are based from ICHQ7*, IPEC guidelines and ISO 9001, and offers EXCIPACT certification at the main manufacturing facility in Lestrem, France. Our approach to providing customers with high-quality drug development solutions always begins with rigorous quality processes and product.



INSPIRED INNOVATION

Our global R&D team and pharmaceutical application experts understand the challenges you face and can readily meet your evolving needs for innovative and patient friendly dosage solutions.





COMPREHENSIVE SOLUTIONS



Solubility Improvement



Stability Enhancement



Taste Masking



Solid Dosage



Disintegration



Film Forming and Coating



Liquid Formulation



Nutrient



Orally Dissolving



Hard & Soft Capsule

MAXIMUM RELIABILITY



Stringent quality control



Robust process management



Comprehensive technical support

INDUSTRY-LEADING QUALITY*







IPEC Excipients GMP's



EXCIPACT certified

ORAL DOSAGE SOLUTIONS





















| Tradename F | Family | Chemistry | Solubility Improvement | Stability Enhancement | Taste Masking | Solid Dosage (fillers/binders/ diluents/sweeteners) | Disintegration | Film Forming and Coating | Liquid Formulation (vehicle, suspending agent) | Nutrient (fibers, proteins, carbohydrates) | Orally Dissolving | Hard & Soft Capsule |
|------------------------|--------------------|---|---------------------------|--------------------------|------------------|---|----------------|--------------------------|--|--|----------------------|------------------------|
| ReadiLYCOAT® | Blend | Hydroxypropyl Starch, Proprietary Blend | | | | | | ~ | | | | |
| SOLUTAB® | Cellulose | Croscarmellose Sodium | | | | | * | | | | * | |
| MICROCEL® | Cellulose | Microcrystalline Cellulose (MCC) | | | | ~ | | | | | | * |
| StarLac® C | Co-Processed | Lactose, Starch | | | | ~ | * | | | | * | |
| PEARLITOL® Flash | Co-Processed | Mannitol, Starch | | | | ~ | * | | | | * | |
| TABULOSE® SC | Co-Processed | MCC, CMC | | | | | | | ✓ | | | |
| KLEPTOSE® C | Cyclodextrins | Betacyclodextrin | * | * | • | | | | | | | |
| KLEPTOSE® HPB, HP | Cyclodextrins | Hydroxypropyl Betacylcodextrin | * | ✓ | • | | | | | | | |
| NUTRIOSE® FB, FM | ibers | Dextrin, Soluble | | | | | | | | * | | |
| SweetPearl® P, DC* | Polyols | Maltitol | | | | ~ | | • | | | | |
| LYCASIN® 80/55 | Polyols | Maltitol Syrup | | | | | | | ✓ | | | |
| PEARLITOL® C, DC, SD* | Polyols | Mannitol | | | | ~ | | | | | * | |
| NEOSORB® 70 | Polyols | Sorbitol Liquid | | | | | | | ✓ | | | * |
| NEOSORB® P, XTAB* | Polyols | Sorbitol Powder | | | | ~ | | * | | | | |
| POLYSORB® 85/70/00 | Polyols | Sorbitol Sorbitan Solution | | | | | | * | | | | * |
| XYLISORB® P | Polyols | Xylitol | | | | ~ | | * | | | | |
| NUTRALYS® P | Proteins | Protein, Pea | | | | | | | | * | | |
| Native Starches* | Starches | Starch (Maize, Potato, Wheat, Pea) | | | | ~ | * | | | | | |
| LYCOAT® NG, RS* | Starches, Modified | Hydroxypropyl Starch | | | | | | * | | | * | • |
| CLEARGUM® CO | Starches, Modified | Octenyl Succinate Starch | * | | | | | | ✓ | | | |
| GLYCOLYS®, EXPLOSOL® S | Starches, Modified | Sodium Starch Glycolate | | | | | * | | | | * | |
| LYCATAB® C, C-LM* | Starches, Modified | Starch, Pre-gel | | | | ~ | • | | | | | • |
| LYCATAB® PGS, M* | Starches, Modified | Starch, Pre-gel | | | | ✓ | | | | | | |
| Dextrose S | Sugars | Dextrose, Anhydrous & Monohydrate | | | | ✓ | | | | * | | |
| Glucose syrup | Sugars | Glucose, Liquid | | | | | | | ✓ | * | | |
| HI-SWEET S | Sugars | High Fructose Corn Syrup | | | | | | | ✓ | | | |
| LYCATAB® DSH | Sugars | Maltodextrin | | | | ~ | | | | | | |
| GLUCIDEX® S | Sugars | Maltodextrin, Dry Glucose Syrup | | | | ✓ | | | | * | | |
| KLEPTOSE® Linecaps | Sugars | Maltodextrin, Pea | | | ~ | | | | | | V | |

^{*} Discover our range of grades adapted to your needs (low moisture, directly compressible, etc)



LEARN MORE ABOUT ROQUETTE ORAL DOSAGE PRODUCTS AT

www.roquette.com | pharma@roquette.com



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