

Animal Health

Product Overview



Liquids
and Gels

Solid
Dosage
Forms

Premixes

Dietary
Fibers

Customize Your Formulation

General Information



Healthcare is essential for the welfare of animals and prevention of diseases transferred from animals to humans. JRS provides solutions for custom delivery systems and dosage forms to meet the needs of the growing global animal health industry.



JRS PHARMA is a leading manufacturer of high functionality excipients, stabilizers, and nutritional and functional fibers for veterinary medicine and animal health supplements. Our innovative solutions and technical support add value to the development and manufacture of companion animal and livestock animal health products.



- Unique Range of Products and Applications.
- One Partner – Multiple Value through Additional Expertise Fields.



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Solutions for Liquid and Gelled Dosage Forms



Liquids and gels are widely used dosage forms for animals. They can be administered orally by drench guns, dosing pumps and syringes, mixed in to feed or spread or poured as creme, gel or liquid on the skin.

Our broad range of thickeners allows a custom standardization of the viscosity including: drug stabilization, syringability, thixotropy, spreadability, and emulsifying properties.

JRS Brand Name		Functions and Benefits	Applications
VIVAPUR® MCG	Dispersible Cellulose (Microcrystalline Cellulose and Carboxymethylcellulose Sodium)	Stabilizer Emulsifier Thickener Outstanding long term stabilization of insoluble ingredients by a three-dimensional insoluble fiber network. MCG-based suspensions become fluid upon agitation, allowing an effortless and accurate dosing and pumpability of suspensions, sprays and drenches	Oral Suspensions Drenches Reconstitutable Powders Sprays Emulsions
VIVAPUR® HPMC VIVAPUR® MC	Hydroxypropylmethyl Cellulose Methylcellulose	Thickener Film Former Binder Emulsifier	Gels Disinfectants Sprays Emulsions
VIVASTAR®	Sodium Starch Glycolate (Type C)	Thickener	Gels Hoof and Claw Care
ARBOCEL® Stabi Plus	Lignocellulose with organic thickener	Stabilizer	Liquidfeed, Milk Replacers
VIVAPHARM® PVP	Polyvinylpyrrolidone	Adhesive	Spot on, Sprays

Solutions for Solid Dosage Forms



Tablets and Boli

Offering an innovative and comprehensive portfolio of excipients, we provide solutions for various conventional and specific solid dosage forms such as chewable tablets, boli tablets or tablets for the drinking.

Binders	
VIVAPUR® HEWETEN®	Microcrystalline Cellulose
EMCOCEL® FLOCEL®	
EMDEX®	Dextrates
EMCOMPRESS®	Calcium Hydrogen Phosphate
COMPACTROL®	Calcium Sulfate Dihydrate
VIVAPHARM® PVP	Povidone
VIVAPHARM® PVP/VA 64	Copovidone
Lubricants	
LUBRITAB®	Hydrogenated Vegetable Oil
PRUV®	Sodium Stearyl Fumarate
Superdisintegrants	
EMCOSOY®	Soy Polysaccharide
EXPLATAB® VIVASTAR®	Sodium Starch Glycolate
VIVASOL®	Croscarmellose Sodium
VIVAPHARM® PVPP	Crospovidone
Functional Filler	
ARBOCEL®	Powdered Cellulose

Carriers	
VIVAPUR® MCC SPHERES	Microcrystalline Cellulose
VIVAPHARM® Sugar Spheres	Sucrose Starch
High Functionality Excipient Composites	
PROSOLV® SMCC	Silicified Microcrystalline Cellulose
PROSOLV® EASYtab SP	Microcrystalline Cellulose Colloidal Silicium Dioxide Sodium Starch Glycolate Sodium Stearyl Fumarate
PROSOLV® ODT G2	Microcrystalline Cellulose Colloidal Silicium Dioxide Fructose Mannitol Crospovidone



Palatability and Taste Masking

High palatability is necessary for successful administration of veterinary products to animals. Encapsulation, tablet-coating, addition of taste masking ingredients, and palatable flavors are widely used methods to increase compliance.

JRS Brand Name		Functions and Benefits	Applications
VIVACOAT®		Ready-to-use coating systems provide robust film coatings, taste masking, moisture protection and enhanced swallowability.	Tablets
VIVAPHARM® HPMC	Hydroxypropyl-methylcellulose	Cellulose-based polymer for robust film coating and granulation.	Tablets
EMDEX®	Dextrates	Its palatable sweet taste combined with outstanding flowability and tableting behavior makes EMDEX® dextrates a versatile excipient for veterinary tablets and animal health supplements.	Binder for Chewable Tablets
ARBOCEL® VITACEL®	Powdered Cellulose	Used as an inert and economic diluent in capsule fillings.	Capsules
VIVAPUR® MCC SPHERES	Microcrystalline Cellulose	Chemical inert, spherical carrier for API's.	Capsules
VIVAPHARM® Sugar Spheres	Sucrose Starch	Water soluble spheres. Carriers for drugs, which are coated around the sugar pellets.	Capsules

Solutions for Premixes



The **REHOFIX**[®] corn cob granules are well established carriers for liquid additives in mineral feed and active ingredients in veterinary premixes for production animals. **REHOFIX**[®] GMO-Free raw materials come exclusively from choice seed cultivation farms located

in main European agricultural areas. **REHOFIX**[®] products are distinguished by a very exact particle size distribution and can, upon request, be manufactured in the size and delivery form you require.

JRS Brand Name		Functions and Benefits	Applications
REHOFIX[®] MK	Corn Cob Granules	Carrier and anti caking agent <ul style="list-style-type: none"> • Excellent adsorption and release effect of the active ingredients • High attrition resistance • Absence of dust • Low ash content • Homogeneous particle size • Excellent flowability and processability 	Veterinary Premixes Feed Additives
REHOFIX[®] CC heavy	Core & Corn Hulls	Carrier and anti caking agent <ul style="list-style-type: none"> • High fiber content • High water binding capacity • Huge surface area & high number of particles per weight unit 	Veterinary Premixes Feed Additives
ARBOCEL[®] Anti Dust	Lignocellulose Vegetable Oil	Dust Reduction	Feed Additives Powdered Supplements

Dietary Fibers



JRS PHARMA offers a unique range of multifunctional fibers at the highest quality and purity standards for nutritional and dietary supplements.

JRS Brand Name	Functions and Benefits	
	Physiological	Technological
VITACEL® Cellulosic Fibers ARBOCEL® Lignocellulose Fibers	These fiber sources are made by a special fibrillation technique to achieve a very fine and defined particle structure with high capillary effect and surface activity.	
	<ul style="list-style-type: none"> • Fiber enrichment • Enhanced digestion and feces quality compared to other fibers • Maintains optimal feces consistency • Lowers the incidence of hairball formation in cats • Stabilizes the gut function 	<ul style="list-style-type: none"> • Filler and binder for tablets, pellets and extrudates • Water and oil binding • Stabilization of texture
VITACEL® AF Apple Fiber	<ul style="list-style-type: none"> • Characterized by soluble and insoluble dietary fibers • Rich in biofunctional compounds (pectin, polyphenols) 	
VITACEL® P95T Psyllium Seed Husk	<ul style="list-style-type: none"> • High content of soluble dietary fiber 	<ul style="list-style-type: none"> • Superior high swelling and water binding properties • Gelling properties

Additionally we supply a wide range of other fiber resources (pea, potato, wheat, oat, bamboo) for different applications ranging from dry to moist health supplements.

Bringing Health Science to Life

Products and Services

Excipients

- Family of High Functionality Excipients
- Binders
- Functional Fillers
- Lubricants
- Thickeners+Stabilizers
- Carriers
- Superdisintegrants
- Calcium Supplements

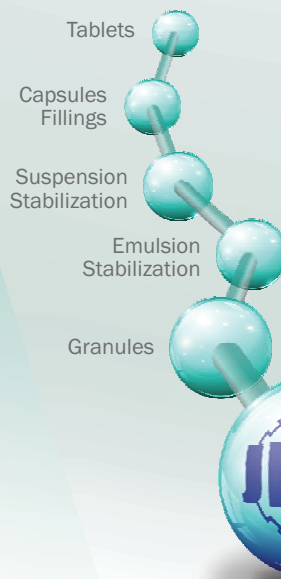
Coatings

Biopharma Services

ProJect Pharmaceuticals www.project-pharmaceuticals.com

C **CELONIC** Pharmaceuticals www.celonic.com

First Class Manufacturer of Excipients and Coatings for



Customer Benefits

- Convenience
- Total Cost Savings
- Global Services
- Innovation

GMP Manufacturing Sites

- Excipients
- Coatings
- Biopharma Services
- JRS Sales Companies

Additionally, dedicated representatives in almost every country.

