

Croda Pharma



Veterinary formulation solutions

High purity excipients and adjuvant systems

Smart science to improve lives™

CRODA

Partnering to tackle your most challenging formulations

High purity excipients and adjuvant systems

Our excipient and formulation solutions enhance **palatability**, **efficacy**, **solubility** and **stability** of actives and formulations for livestock and companion animals.

We are passionate about enabling next generation small molecules and biologics, including veterinary vaccines.

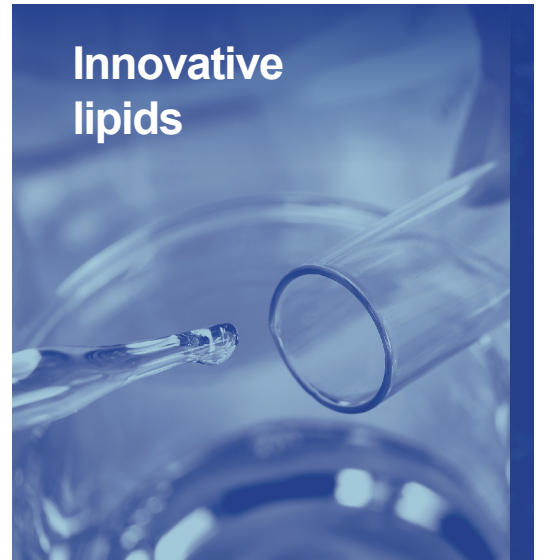
High purity excipients



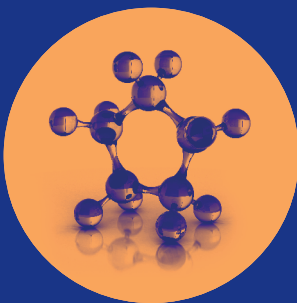
World-leading adjuvant systems



Innovative lipids



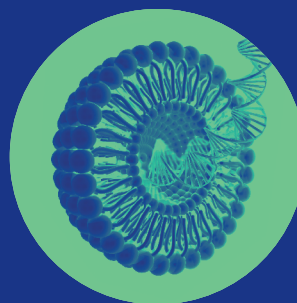
Empowering biologics delivery



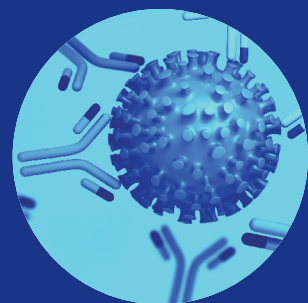
Small Molecule Delivery



Protein Delivery



Nucleic Acid Delivery



Adjuvant Systems



Discover our range

Our excipient portfolio is unparalleled in its purity and breadth, and we are passionate about developing innovative adjuvants for tomorrow's vaccines and providing GMP solutions for today.

- Permeation enhancers
- Vehicles/solvents
- Emulsifiers
- Barrier repair lipids
- Adjuvant systems
- Viral inactivators
- Bioprocessing aids

Small molecule pharmaceuticals



Biologics



Better
palatability



Enhanced
stability and
solubility



Improved
efficacy

Highest purity excipients

We specialise in developing tailored and high purity excipients and solutions for veterinary formulations.

Our exclusive range of Super Refined™ and highly purified excipients offers unparalleled breadth and purity for formulators. They have been designed to reduce the risk of product degradation and to improve chances for successful formulation development, thanks to their low peroxide, aldehyde and organic acid levels, absence of catalyst residues and low moisture content.

Our expertise addresses challenges in companion animals and livestock formulations, such as ingredients for controlled release oral dosage forms to overcome challenges on animal's gastrointestinal physiology and improved taste profile excipients to increase treatment adhesion. Croda's Super Refined range is excellent in solubilising and stabilising difficult-to-dissolve actives. Additionally, our range includes high purity permeation enhancers for topical veterinary formulations.

Research and GMP lipids

We are experts in the development and manufacture of research and GMP grade lipids for nucleic acid delivery. Discover more in our vaccine brochure.

Innovative and GMP adjuvants

Leveraging over 80 years of expertise in vaccine adjuvants, we are committed to manufacturing and supplying the GMP adjuvants needed today and developing the novel adjuvants of tomorrow.

Our industry-leading Quil- A™ is widely recognised in the vaccine industry as well as Alhydrogel™, and Adju-Phos™.

New adjuvants are also in development, continuing our offer for veterinary vaccines.



Partner with us

We collaborate directly with customers to optimise our products for your formulations, empowering you to develop the next generation of products.

Our expertise in high purity excipients and formulation enables us to employ Quality by Design (QbD) in our labs for effective development and optimisation.

Leveraging cutting edge technologies globally, we partner to formulate and evaluate your small molecule and biologic products to help improve bioavailability and other key parameters.

Working together, you will gain crucial insights into how the final formulation will perform using our products.

Contact our experts

To partner with us or enquire about further product information, such as monograph compliance, please contact your sales representative or email us at:

Europe, Middle East & Africa:

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Product name	Chemical description	Physical form	HLB	Monograph**					Routes/ applications*				F
				FDA IID*	Ph. Eur.	USP/NF	JP/JPE	ChP	Parenteral	Oral	Topical	Auricular/ ophthalmic/ nasal	
Permeation enhancers													
Cithrol™ GMO HP	Glycerol monooleate	Off-white solid	3.0	■	■					■	■		H b
Super Refined™ DEGEE	Diethylene glycol monoethyl ether	Liquid	16.0	■	■	■			■*	■	■	■	S C
Super Refined™ DMI	Dimethyl isosorbide	Clear, essentially colourless liquid		■							■		H
Super Refined™ IPM	Isopropyl myristate	Colourless liquid	10.0	■	■	■	■				■	■	H
Super Refined™ Lauryl Lactate	Lauryl lactate	Clear, colourless liquid	14.0	■							■		H e
Super Refined™ Oleic Acid	Oleic acid	Clear, essentially colourless liquid	1.0	■	■	■	■		■	■	■	■	H b
Super Refined™ Oleyl Alcohol	Oleyl alcohol	Clear, essentially colourless liquid	14.5	■	■	■					■		H b
Super Refined™ Oleyl Oleate	Oleyl oleate	Colourless to pale yellow liquid	7.0	■		■	■				■		H
Gel vehicles													
Crodabase™ SQ	Mineral oil (and) polyethylene blend	Smooth, oily, translucent gel		■							■		A a
Emulsifiers, solubilisers and dispersing agents													
Cithrol™ GMS 40 Pharma	Glycerol monostearate	Off-white solid	3.4	■		■				■	■	■	M P
Crodasol™ CCMG 400	Caprylocaproyl polyoxylglycerides 8	Liquid	14.0	■	■	■							M U
Crodasol™ HS HP	Polyoxyl 15 hydroxystearate	White to pale yellow waxy solid	15.0	■	■	■			■	■	■	■	C
Croduret™ 40 Pharma	PEG 40-45 hydrogenated castor oil	Off-white paste	13.0	■	■	■				■	■		V
Etocas™ 35 Pharma	PEG 35 castor oil	Colourless liquid	12.7	■	■	■				■	■		C
Span™ 20 HP	Sorbitan laurate	Pale yellow liquid	8.6	■	■	■	■			■	■		S T
Super Refined™ CCMG 400	Caprylocaproyl polyoxylglycerides 8	Liquid	14.0	■	■	■							S
Super Refined™ P35 Castor Oil	Polyoxyl 35 castor oil	Liquid	14.0	■	■	■	■		■	■	■	■	S
Super Refined™ Polysorbate 20	Polysorbate 20	Clear, essentially colourless liquid	16.7	■	■	■	■	■	■	■	■	■	H
Synperonic™ PE/F 68 Pharma	Poloxamer 188	Flakes		■	■	■				■	■		P h
Synperonic™ PE/F 127 Pharma	Poloxamer 407	Flakes		■	■	■	■			■	■	■	H i
Tween™ 20 HP	Polysorbate 20	Clear yellow liquid	16.7	■	■	■	■	■	■	■	■		P v
Tween™ 60 HP	Polysorbate 60	Yellow liquid/soft solid	14.9	■	■	■				■	■		

* Recommended by Croda and based on the FDA Inactive Ingredients List (for human)/Center for Drug Evaluation and Research 2020, United States, accessed on 20 October, 2020.

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For more information in our Lipid portfolio please get in touch.



nasal	Product description

High purity lipid-based drug delivery excipient offering the potential for enhanced bioavailability of actives coupled with controlled drug release. It offers sustained drug release and greater active bioavailability for topical dosage forms.
Super Refined DEGEE is ideal for use in topical applications to enhance the permeation of poorly water-soluble API's through various layers of the skin, thereby improving drug delivery. Only for veterinary health it can be used for parenteral applications according to EMA. No MRL (EU) (all ruminants and porcine).
High purity liquid for use with poorly soluble hydrophilic actives. Enhances the formulation and API stability in transdermal delivery systems. Recommended topical usage levels of 5-10%.
Highly purified grade of isopropyl myristate for use with sensitive active pharmaceutical ingredients or in applications where standard Crodamol IPM is not suitable.
Highly purified alpha hydroxy acid (AHA) ester product. While occasionally used as a surfactant in an emulsion, typical applications for lauryl lactate include emolliency and penetration enhancement in topical formulations.
Highly purified oleic acid, used as a co-emulsifier in topical pharmaceutical formulations. Suitable as a penetration enhancer in transdermal products. In addition, it can be used to improve the bioavailability of poorly water soluble drugs. Recommended topical usage levels of 2-25%.
Highly purified permeation enhancer that promotes skin penetration by means of bilayer disruption and disordering. It assists the percutaneous absorption of water-soluble and oil-soluble drugs by means of partial leaching of the epidermal lipids. Recommended topical usage of 2-10%.
Highly purified grade of pharmaceutical oleyl oleate. A plant-derived light and non-greasy emollient.
A soft, oily, translucent ointment base enabling topical formulations that are easy to apply and deliver a smooth skin feel. Easy to use, suitable for cold processing and provides a superior alternative to petrolatum. Recommended topical usage levels of up to 100%.

Non-ionic emulsifier, W/O and O/W emulsion stabiliser, dispersant and emollient used in oral and topical pharmaceutical preparations. Forms sustained release matrices. Recommended topical usage levels of 1-10%.
Mixture of caprylocaproyl macroglycerides that demonstrates amphiphilic characteristics and is primarily used in oral pharmaceutical applications. Due to its amphiphilic nature, it is ideal for use as a surfactant or co-solvent in SEDDS or SMEDDS. It can help solubilise poorly water-soluble APIs, thereby enhancing their bioavailability.
Good surfactant for electrolyte products for companion animals. Good solubiliser for vitamins and vehicle for formulation with amino acids. Can be used in oral and injectable formulations.
Virtually tasteless solubiliser widely used for vitamins and a variety of oral formulations. Excellent solubiliser for vitamins A, E and D.
Good surfactant for electrolyte products for companion animals. Good solubiliser for vitamins and vehicle for formulation with amino acids.
Span HP grades have reduced moisture levels, lower peroxide values and lower acid values. Spans are W/O emulsifiers and when used in combination with ethoxylated sorbitan esters (the Tween range) they contribute to the overall stability of O/W emulsions.
Super Refined version of Crodasol CCMG 400 Pharma.
Super Refined version of Etocas 35 Pharma.
Highest purity grade of Polysorbate 20 used to formulate oil-in-water emulsions for oral, topical or injectable formulations.
Functions well as an O/W emulsifier. It is an effective solubiliser, frequently increases the water solubility of hydrophobic substances and improve the miscibility of two substances with different hydrophobicity. It has the ability to form thermo-reversible gels that liquefy upon cooling and reform upon rewarming.
High molecular weight (12000g/mol) and high polyethylene oxide content. Functions well as an O/W emulsifier and as an effective solubiliser. Often used in oral formulations to minimise taste impact as it does not have a bitter taste profile. Useful in ophthalmic applications as it is very mild and helps reduce irritation and infection.
Promote very stable O/W emulsion systems when used in association with the Span range. Good solubilisers for liposoluble actives. High Purity (HP) grades can be used to formulate water-in-oil emulsions for oral, topical and injectable formulations.

Croda Pharma

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				FDA IID*	Ph. Eur.	USP/NF	JP/JPE	ChP	Parenteral	Oral	Topical	Auricular/ ophthalmic/ nasal	
Vehicle/solvents													
Crodamol™ CAP	Cetostearyl ethylhexanoate (and) isopropyl myristate	Colourless liquid	8.0								■		E
Crodamol™ EO Pharma	Ethyl oleate	Pale yellow liquid	11.0	■	■	■				■	■		L P
Crodamol™ GTCC Pharma	Caprylic capric medium chain triglyceride	Colourless liquid	10.0	■	■	■			■	■	■		C
Crodamol™ IPM Pharma	Isopropyl myristate	Colourless liquid	10.0	■	■	■	■				■	■	S P
Crodamol™ PC Pharma	Propylene glycol dicaprylocaprate	Colourless/very pale yellow liquid	8.0		■	■					■		L V
Crodamol™ PMP	PPG 2 myristyl ether propionate	Colourless liquid	8.0								■		P
Super Refined™ Benzyl Alcohol	Benzyl alcohol	Liquid	12.9		■	■	■		■	■	■	■	H
Super Refined™ Castor Oil	Castor oil	Clear, essentially colourless liquid	14.0	■	■	■	■	■	■	■	■	■	H t
Super Refined™ Corn Oil	Corn oil	Clear, essentially colourless liquid	7.9	■	■	■			■	■	■		H i
Super Refined™ Cottonseed	Cottonseed oil	Clear, essentially colourless liquid	7.9	■		■			■	■	■		H l
Super Refined™ GTCC	Caprylic capric medium chain triglyceride	Colourless liquid	10.0	■	■	■	■	■	■	■	■		S
Super Refined™ Olive Oil	Olive oil	Clear, essentially colourless liquid	7.7	■			■			■	■		H
Super Refined™ Peanut Oil	Peanut oil	Clear, essentially colourless liquid	7.8	■	■	■			■	■	■		H t
Super Refined™ PEG 300	Polyethylene glycol 300	Colourless viscous liquid		■	■	■	■		■	■	■	■	H A
Super Refined™ PEG 400	Polyethylene glycol 400	Colourless viscous liquid		■	■	■	■		■	■	■	■	
Super Refined™ PEG 600	Polyethylene glycol 600	Colourless viscous liquid		■	■	■	■		■	■	■	■	
Super Refined™ Propylene Glycol	Propylene glycol	Clear liquid	11.6	■		■	■	■	■	■	■	■	H
Super Refined™ Safflower Oil	Safflower oil	Clear, essentially colourless liquid	7.7			■			■	■	■		H a
Super Refined™ Sesame Oil	Sesame oil	Clear, essentially colourless liquid	7.8	■	■	■	■	■	■	■	■		H l
Super Refined™ Soybean Oil	Soybean oil	Clear, essentially colourless liquid	7.7	■	■	■	■		■	■	■		H e
Vet Pur™ Sesame Oil	Sesame oil	Yellow to pale-yellow liquid	7.8			■			■	■	■		S ir

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For more information in our Lipid portfolio please get in touch.



Product description

Branched chain ester with excellent spreading properties. Effective water repellent for pour-on applications. Required HLB value of 8. Recommended topical usage levels of 2-10%.
Low viscosity solvent for lipophilic actives. Non-occlusive emollient with good spreading properties. Rapidly absorbed by body tissues. Dermal penetration enhancer. Required HLB value of 11. Recommended topical usage levels of 0.5-5%.
Good emollient with excellent oxidative stability. Vehicle for anti-parasitic pour-on applications. Required HLB value of 10. Recommended topical usage levels of 0.5-20%.
Solvent used in topical formulations to encourage rapid absorption on the skin. Presence of ester groups increase product spreadability in topical formulations for pour-on applications. Recommended topical usage levels of 0.5-5%.
Low viscosity solvent with good spreading properties. Good skin penetration enhancer to increase active absorption of pour-on formulations. Solubiliser and carrier for injection formulations. Vehicle for anti-parasitic pour-on and endectocide applications. Recommended topical usage levels of 2-10%.
Rapidly absorbed solvent for lipophilic actives. Promotes good spreadability and is an excellent vehicle for pour-on applications. Recommended usage levels of 0.5-10%.
High purity aromatic alcohol widely used in parenteral formulation and solubiliser in antimicrobial preservative in oral liquid formulations.
Highly purified triglyceride of fatty acids composed of ricinoleic acids, oleic acid, linoleic acid, palmitic acid and stearic acid. Commonly used in topical creams and ointments as well as in oral tablets and capsule formulations. May also be used in ophthalmic emulsions and as a solvent for intramuscular injections.
High purity corn-derived triglyceride that is primarily used in pharmaceutical formulations as a solvent and/or vehicle for intramuscular injections. It is also commonly used in oral dosage forms in tablets, capsules and suspensions.
High purified cottonseed-derived triglyceride that can be used as a solvent and vehicle for injectables, as an emollient vehicle for other medications and orally as a mild cathartic. It can also be used in oral capsule dosage forms.
Super Refined version of Crodamol GTCC Pharma.
Highly purified olive-derived triglyceride that can be used topically as an emollient and lubricant in emulsions, ointments, liniments, ophthalmic and otic preparations and oral capsules.
Highly purified peanut-derived triglyceride that is suitable for use as an excipient in pharmaceutical formulations, as a solvent for sustained-release intramuscular injections and as a vehicle for topical preparations, nasal drug delivery systems and controlled release injectables. In addition, it can be used in emulsions for nutritional applications.
Highly purified polyethylene glycol that can enhance API and overall formulation stability. Highly stable and non-irritating, ideal for ointment bases as they do not readily penetrate the skin. A wide array of uses in multiple dosage forms and can be used to enhance the aqueous solubility or dissolution characteristics of poorly soluble compounds.
Highly purified grade of propylene glycol widely used in parenteral formulation and solubiliser or antimicrobial preservatives in oral liquid formulations.
Highly purified safflower-derived triglyceride that is rich in essential fatty acid linoleic acid. Odourless, light and quickly absorbed oil, widely used as an emollient in the treatment of dry skin and eczema.
Highly purified sesame-derived triglyceride that can be used as a solvent in the preparation of sustained-release intramuscular/subcutaneous injections of oil soluble actives. It is used in suspensions and emulsions, ointments and oral capsules. Its improved taste profile enables the formulation of more palatable oral liquid medicines.
Highly purified soy-derived triglyceride that can be used as a fat source in parenteral nutritional applications. Can be used as a vehicle for oral and intravenous drug administration and as an emollient in topical preparations.
Standard grade of USP sesame oil. Use as a vehicle or solvent in veterinary formulations such as parasiticides, hormones, antibiotics and anti-inflammatories. Compatible with components of injectable, topical (pour-on) and oral veterinary formulations. It has a yellowish colour.

Product name	Chemical description	Physical form	HLB	Monograph**					Routes/ applications*				F
				FDA IID*	Ph. Eur.	USP/NF	JP/JPE	ChP	Parenteral	Oral	Topical	Auricular/ ophthalmic/ nasal	

Barrier repair lipids

Cholesterol	Animal derived cholesterol	White crystalline powder		■	■	■					■		E
Crodamol™ ISIS Pharma	Isostearyl isostearate	Colourless liquid	11.0		■						■		S n F
Pharmalan™	Lanolin	Yellow soft mass		■	■	■					■		F F

Vaccine adjuvants

Adju-Phos™	Aluminium phosphate gel	Gel	N/A	N/A					cGMP Certified Manufacturing site, EU GMP (Part I)				A It
Alhydrogel™ 1.3%	Aluminium hydroxyde gel 1.8 - 2.2 Al(OH) ₃ , % w/w	Gel			■								A It
Alhydrogel™ 1.5%	Aluminium hydroxyde gel 2.1 - 2.5 Al(OH) ₃ , % w/w	Gel			■								
Alhydrogel™ 2%	Aluminium hydroxyde gel 2.7 - 3.3 Al(OH) ₃ , % w/w	Gel			■								
Quil-A™	Saponin	Lyophilised, concentrated, crystal-like powder							cGMP Certified Manufacturing site, EXCiPACT GMP				A (
Sustainably sourced Squalene	Bio-fermentation derived squalene	Clear, essentially colourless liquid			■								S c n

Surfactants and GMP components for veterinary vaccines

Cholesterol	Vegetable derived cholesterol	Powder			■	■	■		■				C ir a
Span™ 80 HP	Sorbitan oleate	Amber liquid	4.3	■	■	■				■	■		S (
Span™ 83 Pharma	Sorbitan sesquioleate	Amber viscous liquid	3.7	■	■	■					■		L
Span™ 85 Pharma	Sorbitan trioleate	Amber liquid	1.8	■	■	■				■	■		S
Super Refined™ Polysorbate 80	Polysorbate 80	Clear, essentially colourless liquid	15.0	■	■	■	■	■	■	■	■	■	F
Super Refined™ Polysorbate 80 POA	Polysorbate 80	Clear, essentially colourless liquid	15.0	■	■	■	■	■	■	■	■	■	F
Tween™ 80 HP	Polysorbate 80	Clear yellow liquid	15.0	■	■	■	■	■	■	■	■		F w

Bioprocessing aids

Virodrex™ TXR-1	Macrogol lauryl ether 9	Paste/liquid	N/A	N/A	■	■			Sustainable, REACH -compliant, and cGMP EXCiPACT manufactured.				V tl b
Virodrex™ TXR-2	Macrogol 6 glycerol caprylocaprate	Liquid			■								V tr b

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For more information in our Lipid portfolio please get in touch.



nasal	Product description

Excellent moisturiser with skin conditioning benefits. Very effective in repairing the skin barrier. Powerful W/O emulsifier and emulsion stabiliser. High purity plant derived grade also available.
Substantive, non-occlusive emollient provides superior moisturisation to the skin. Synergistically improves the skin's natural barrier function, boosting the hydration process, via a unique mechanism. Stabilises the lipid bilayers of the stratum corneum into a more tightly packed structure, thereby improving their effectiveness in preventing water loss. Required HLB value of 11. Recommended topical usage levels of 2-10%.
Purified grades of anhydrous lanolin is a natural wax that assist in the repair of the skin barrier and aids water absorption. Excellent in topical veterinary applications. Recommended topical usage levels of 1-10%, although can be used neat on skin.

ng	Aluminium phosphate gel specifically developed for use as an adjuvant. Its net negative charge at neutral pH leads to an effective adsorption of positively charged antigens. It boosts the antibody-mediated (Th2) immune response to the antigens, and can be combined with other adjuvants to achieve a well-balanced Th1/Th2 immune response.
	Aluminium hydroxide gel with very low conductivity due to the absence of buffering ions. It has a positive charge at a neutral pH and effectively absorbs negatively charged antigens. It boosts the antibody-mediated (Th2) immune response to the antigens, and can be combined with other adjuvants to achieve a well-balanced Th1/Th2 immune response.
ng	A highly purified quillaja saponin product that is very versatile and which can induce a well-balanced immune response to protect against both intracellular (Th1) and extracellular (Th2) pathogens. Developed for veterinary applications.
	Squalene is a natural lipid belonging to the terpenoid family. It is an important component in some vaccine formulations. Squalene-based adjuvants increase the immunostimulating effect of a vaccine significantly while keeping a well-established safety profile. Sustainably sourced Squalene offers superior purity of at least 99% in line with stringent requirements of vaccine manufacturers. It is molecularly identical with shark-oil derived squalene and shows equivalent stability in emulsion adjuvants.

Cholesterol is an essential ingredient in a wide range of technologies from adjuvants systems, lipid nanoparticles for mRNA delivery to cell culture media. In the last few years, there has been increasing demand for cholesterol from a plant-based source. Our plant-based and parental grade cholesterol provides a high-purity alternative to traditional egg and animal-based cholesterol and is USP/NF, JP and parenteral grade Ph. Eur. compliant.
Span HP grades have reduced moisture levels, lower peroxide values and lower acid values. Spans are W/O emulsifiers and when used in combination with ethoxylated sorbitan esters (the Tween range) they contribute to the overall stability of O/W emulsions.
Liquid W/O emulsifier and O/W emulsion stabiliser. Used mainly in W/O adjuvant formulations.
Span 85 is a liquid W/O emulsifier and O/W emulsion stabiliser used typically in squalene adjuvants systems emulsions.
Highest purity grade of Polysorbate 80 widely used in parenteral formulation and good stabiliser for proteins.
Highest purity grade of Polysorbate 80 widely used in parenteral formulation and good solubiliser for liposoluble actives. Pure oleic acid version.
Promote very stable W/O and O/W emulsion systems when used in association with the Span range. Good solubilisers for liposoluble actives. High Purity (HP) grades can be used to formulate water-in-oil emulsions for vaccine formulations.

Virodextm TXR-1 is a readily biodegradable, nonionic surfactant for viral inactivation and cell lysis, meeting the needs of biopharmaceutical applications as an effective and safe replacement for the traditional detergent, Tritonm X-100. As a next-generation, sustainable detergent, Virodextm TXR-1, along with its excellent biological compatibility, is recommended to be used in the efficient biomanufacturing of recombinant proteins such as monoclonal antibodies, as well as plasma-derived therapies, viral vector-based therapies and more.
Virodextm TXR-2 is a 40% biobased, nonionic surfactant for viral inactivation and cell lysis, meeting the needs of biopharmaceutical applications as an effective and safe replacement for the traditional detergent, Tritonm X-100. As a next-generation, sustainable detergent, Virodextm TXR-2, along with its excellent biological compatibility, is recommended to be used in the efficient biomanufacturing of recombinant proteins such as monoclonal antibodies, as well as plasma-derived therapies, viral vector-based therapies and more.

Croda Pharma

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Croda Pharma



Avanti Polar Lipids



Non-warranty

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Smart science to improve lives™



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