

NOMISMA[®]

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**PRODUCT
CATALOGUE**



Manufacturer & Supplier of Polymers
PLGA (*Poly Lactide co Glycolide*)
PLA (*Poly Lactide*)
for Medical & Complex Drug Delivery Application



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Polymers for parenteral controlled release drug delivery & medical devices

Nomisma Healthcare is one of the world's leading specialty polymer companies, serving customers in a variety of consumer and industrial markets. We are passionate and hardworking, committed to providing practical, innovative, and elegant solutions to customers in more than 100 countries/regions to meet the complex requirement of various grade of polymers.



Bioresorbable Polymers

Nomisma offers bioresorbable polymers for Parenteral Controlled Release Drug Delivery Systems & Medical Devices.

For Drug Delivery,

- Poly (D, L-Lactide) (PDLLA)
- Poly (D, L-Lactide-co-Glycolide) (PLGA).
- Poly (D, L-Lactide-co-Glycolide-co-PEG) (PLGA-PEG-PLGA).

For Medical Devices:

- Poly(L-Lactide) (PLLA)
- Poly(ϵ -Caprolactone) (PCL)
- Poly(L-Lactide-co- ϵ -Caprolactone) (PLCL).
- Poly(Glycolide) (PGA),

All bioresorbable polymers can be custom produced with defined Chemical Structures, Molar Masses (Molecular Weight or Inherent Viscosity) & Selective Terminal End groups.

Raise Quality Standards

We are enthusiastic to learn and implement the growing technology to enhance the process potentials of our customers by providing the choice of product/s of important requirement, without affecting the natural resources which in turn maintain the quality life of human being. Through the knowledge and applicability – our people, products, and services to the customers across the globe – Nomisma continues to expand its services with renewable and sustainable solutions

A key feature of Nomisma's bioresorbable polymers is that they contain no detectable residual solvents, reducing concern over potential effects due solvent/s. Additionally, all bioresorbable polymers meet typical drug and device regulatory thresholds for tin metal level established by health authorities with significantly lower tin metal level than regulatory requirements.

Our Bioresorbable Polymers are utilized in Medical Applications throughout a numerous platform of controlled release Parenteral Drug Delivery and Medical Devices majorly in the following sectors:

- Cardiovascular
- Orthopedic
- Dental
- Ophthalmic
- Neurologic regeneration
- Wound care management
- Advanced tissue engineering

Bioresorbable Polymers give a better platform to the formulation scientists, the possibility to design better drug delivery systems, which could lead to advanced efficacy, fewer side effects, and better compliance, leading to get improved outcome in patients.

Processing bioresorbable polymers

Our bioresorbable polymers are compatible with melt and solvent based processing technologies. Through the knowledge, skills and assistance of Nomisma's scientists, in various fields like extrusion, injection molding, 3D printing, emulsion formulation, spray coating and laser cutting, may help to smoothen/speed up your development process.

Manufacturing facility

Our bioresorbable polymers are produced in ISO 9001 certified facility to meet medical device standards and to comply with USP/NF General Chapter <1078> Good Manufacturing Practices for Bulk Pharmaceutical Excipients and The Joint IPEC-PQG Good Manufacturing Practices Guide for Pharmaceutical Excipients, 2017 as published under the auspices of the International Pharmaceutical Excipients Council for controlled-release drug delivery applications.

Packaging, storage and stability

Our bioresorbable polymers are supplied in the form of powder in a packing of 50g, 100g, 250g, 500g & 1 kilogram consisting of an HDPE bottle & a secondary packing of aluminum bag containing silica gel. When stored in its prescribed packaging conditions, our bioresorbable polymers will meet the defined stability for the respective polymer.

Applications

Controlled Release Drug Delivery Formulations

Formulation developers are using self-absorbable polymers to create drug delivery systems that improve the patient's health. Flexibility, convenience and better compliance to meet patient needs can all be incorporated into the system design process involving use of Proteins, vaccines, and other biological molecules. Scientists can use our polymer to develop & manufacture strategies of controlled release injectable depots, micro/nanoparticles and solid implants. API together with polymer and solvent is mixed to form a gel which is injected to the patient so that the drug can release as per the necessity. Prefabricated implants containing drugs can be made by melt extrusion of drugs and polymers and implanted into the body by surgery or if small enough, they can be inserted through a well-known techniques.

Medical Devices

Bioresorbable Polymers are valuable additives with inside the design and manufacture of Medical Devices such as:

- Screws
- Plates and Bone regeneration scaffolds
- Staples and Sutures
- Neural conduits
- Hernia meshes
- Stents
- Device coatings
- Dental and Ophthalmic treatments

Utilized for their structural characteristics, bioresorbable polymers are resorbed through the body, doing away with the need for surgical elimination once the healing process is complete.

Product range

Poly (D, L-lactide-co-glycolide) (PLGA)

Identification	Polymer	Ratio	End Group	Inherent Viscosity dl/g
DLG 50-2A	PLGA	50/50	COOH	0.15-0.25
DLG 50-3A	PLGA	50/50	COOH	0.25-0.40
DLG 50-5A	PLGA	50/50	COOH	0.40-0.55
DLG 50-6A	PLGA	50/50	COOH	0.55-0.65
DLG 50-8A	PLGA	50/50	COOH	0.75-0.85
DLG 50-2E	PLGA	50/50	ESTER	0.15-0.25
DLG 50-6E	PLGA	50/50	ESTER	0.55-0.65
DLG 50-7E	PLGA	50/50	ESTER	0.60-0.70
DLG 50-6P	PLGA-PEG	50/50	PEG	0.45-0.65
DLG 50-7P	PLGA-PEG	50/50	PEG	0.65-0.80
LG 50-7E	PLGA	50/50	ESTER	0.60-0.70
LG 50-2E	PLGA	50/50	ESTER	0.15-0.25
LG 50-7A	PLGA	50/50	COOH	0.60-0.70
LG 50-2A	PLGA	50/50	COOH	0.15-0.25
DLG 75-2A	PLGA	75/25	COOH	0.08-0.21
DLG 75-5A	PLGA	75/25	COOH	0.38-0.64
DLG 75-7A	PLGA	75/25	COOH	0.60-0.70
DLG 75-8A	PLGA	75/25	COOH	0.70-0.90
DLG 75-10A	PLGA	75/25	COOH	0.80-1.10
DLG 75-2E	PLGA	75/25	ESTER	0.15-0.30
DLG 75-4E	PLGA	75/25	ESTER	0.30-0.50
DLG 75-7E	PLGA	75/25	ESTER	0.66-0.80
DLG 75-9E	PLGA	75/25	ESTER	0.75-1.00
DLG 75-4A	PLGA	75/25	COOH	0.30-0.50

Product range

LG 75-2E	PLGA	75/25	ESTER	0.15-0.30
LG 75-9E	PLGA	75/25	ESTER	0.75-1.00
LG 75-2A	PLGA	75/25	COOH	0.15-0.30
LG 75-9A	PLGA	75/25	COOH	0.75-1.00
DLG 85-2A	PLGA	85/15	COOH	0.15-0.25
DLG 85-7A	PLGA	85/15	COOH	0.55-0.75
DLG 85-7E	PLGA	85/15	ESTER	0.55-0.75
DLG 85-12E	PLGA	85/15	ESTER	1.00-1.30
DLG 45-2A	PLGA	45/55	COOH	0.15-0.30
DLG 55-5A	PLGA	55/45	COOH	0.40-0.50
DLG 65-3A	PLGA	65/35	COOH	0.25-0.35
DLG 65-6A	PLGA	65/35	COOH	0.50-0.65
DLG 90-5A	PLGA	90/10	COOH	0.35-0.55
DLG 90-7A	PLGA	90/10	COOH	0.60-0.75
DLG 95-2A	PLGA	95/5	COOH	0.15-0.25
DLG 95-4A	PLGA	95/5	COOH	0.25-0.50
DLG 65-6E	PLGA	65/35	ESTER	0.50-0.65
DLL 10-15E	P(L/DL) LA	10/90	Ester	1.30-1.70

Poly Lactide (PLA)

Identification	Polymer	Ratio	End Group	Inherent Viscosity
DL 100-1A	PDLLA	0/100	COOH	0.05-0.20
DL 100-2A	PDLLA	0/100	COOH	0.15-0.30
DL 100-5A	PDLLA	0/100	COOH	0.40-0.60
DL 100-7A	PDLLA	0/100	COOH	0.60-0.80
DLL 10-15A	P(L/DL)LA	90/10	COOH	1.30-1.70

Product range

L 100-1A	PLLLA	0/100	COOH	0.05-0.20
L 100-2A	PLLLA	0/100	COOH	0.15-0.30
L 100-5A	PLLLA	0/100	COOH	0.40-0.60
L 100-7A	PLLLA	0/100	COOH	0.60-0.80
L100-12A	PLLA	0/100	COOH	0.9-1.2
DLL 10-15A	P(L/DL)LA	10/90	COOH	1.30-1.70
DL 100-1E	PDLLA	0/100	Ester	0.05-0.20
DL 100-2E	PDLLA	0/100	Ester	0.15-0.30
DL 100-5E	PDLLA	0/100	Ester	0.40-0.60
DL 100-7E	PDLLA	0/100	Ester	0.60-0.80
DLL 10-15E	P(L/DL)LA	90/10	Ester	1.30-1.70
L 100-1E	PLLLA	0/100	Ester	0.05-0.20
L 100-2E	PLLLA	0/100	Ester	0.15-0.30
L 100-5E	PLLLA	0/100	Ester	0.40-0.60
L 100-7E	PLLLA	0/100	Ester	0.60-0.80
L100-12E	PLLA	0/100	Ester	0.9-1.2
DLL 10-15E	P(L/DL)LA	10/90	Ester	1.30-1.70

L= L Lactide, D= D lactide, DL= DL-Lactide, G= Glycolide, A= Acid End group, E= Ester End group

Remarks:

Elemental Impurities - conforms to the ICH Q3D requirements (Not measured for each lot).

The Product conforms to the requirements of Nomisma Healthcare, including ISO 9001:2015.

The customer is not released from the obligation to conduct careful inspection and testing of incoming products.

Products are available in non-GMP sample form; contact us for a quote on GMP manufacturing.

How to Place Order?

Step -01

Communicate with the below details to info@nomismahealthcare.com

- Contact Detail
- Delivery Address / Billing Address
- Types of the Polymer to be purchased (As per catalog)
- Quantity
- GST No. if available.

Step-02

- Confirm your order by paying advance payment and send a payment receipt by mail
Or send an approved purchase order by mail.

Step-03

- We will be dispatching the consignment within 2 to 4 weeks after the order is confirmed.

Appreciate technical Questions by mail to support the fulfilment for the choice of polymer.



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