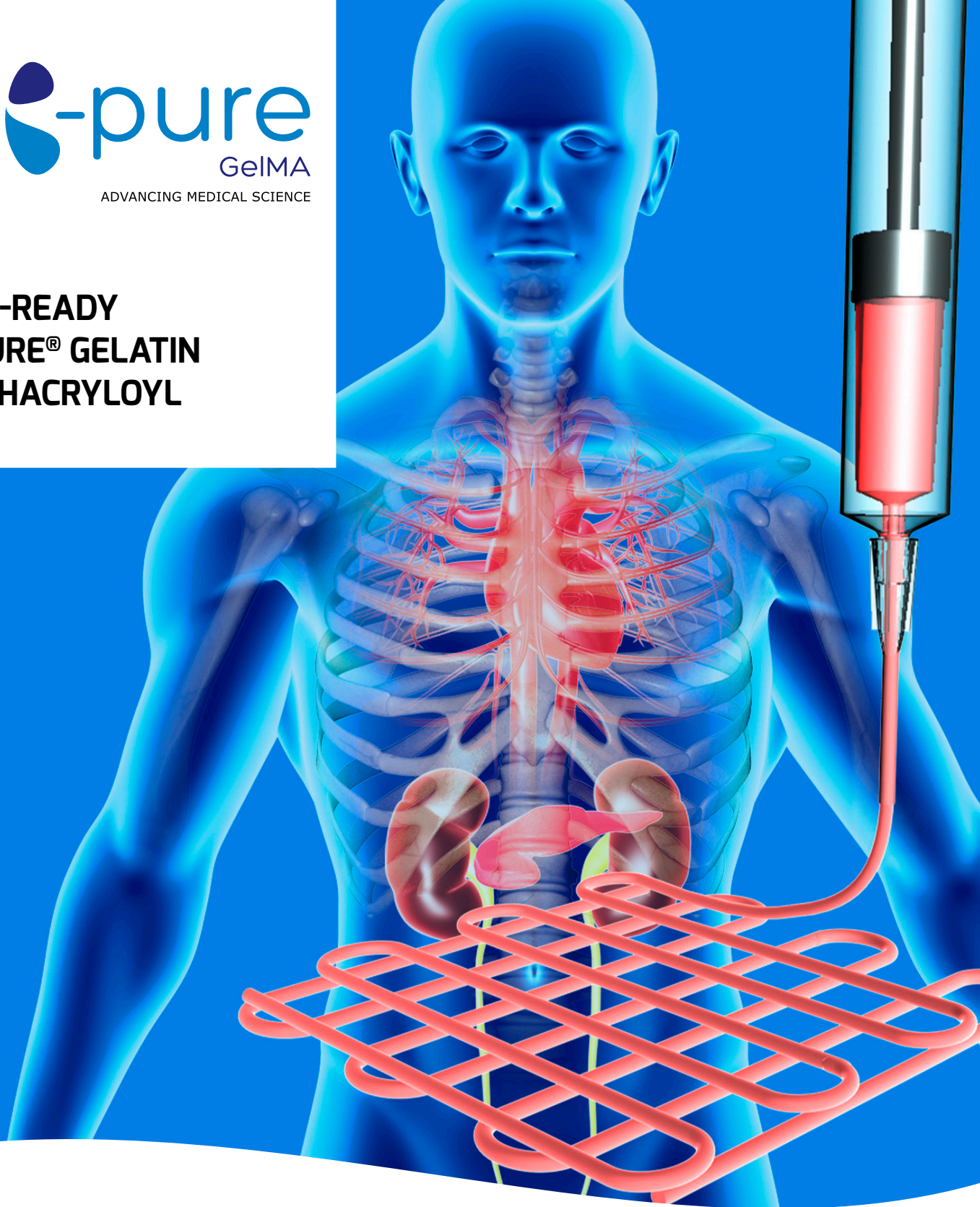


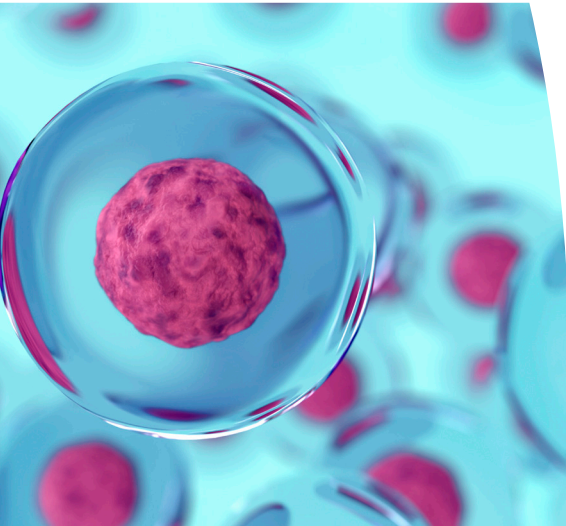


**GMP-READY
X-PURE® GELATIN
METHACRYLOYL**



**THE WORLD'S FIRST GMP-READY FULL RANGE OF GELATIN
METHACRYLOYL (GELMA)**

A new range of pharmaceutical grade bioengineering materials suitable for a wide range of (pre)clinical applications, supporting the most demanding research and clinical challenges. X-Pure® GelMA is part of Rousselot®'s innovative X-Pure range and sets the standard for purified gelatin solutions for applications such as 3D bioprinting tissue, bioadhesives, and advanced drug delivery vehicles.



X-PURE GELMA CAN SIGNIFICANTLY REDUCE TIME TO CLINIC

FULL & VALIDATED TRACEABILITY OF RAW MATERIALS, ULTRA-LOW LEVELS OF IMPURITIES.

GELMA - A FAVORED MATERIAL

Gelatin methacryloyl (GelMA)-based biomaterials have been widely used in various biomedical research applications thanks to their suitable biological properties and tunable physical characteristics. Especially over the past 5 years, GelMA-oriented research and patent applications have been growing exponentially, and many of these research concepts are now being translated towards the clinic. Suitable GelMA biomaterials are therefore indispensable to keep pace with the newest medical innovations.

X-PURE GELMA - SETTING THE STANDARD

Standard GelMA products carry impurities originating from the precursor gelatin and from the chemical synthesis process. High, unspecified and inconsistent impurity levels can affect both in vitro and clinical applications of GelMA biomaterials. Rousselot's X-Pure GelMA products are purified via a controlled proprietary two-stage process to guarantee consistent, ultra-low levels of pyrogens (e.g. endotoxins and DNA), methacrylic acid (MA), and insoluble debris, enabling a fast and efficient approval process.

OUR RANGE FOR CLINICAL APPLICATION APPROVALS

Our portfolio covers a broad range of molecular weights (MW) and modification degrees (DoM).

	MW (kDa)	DoM (%)	Endotoxin level (EU/g)	MA (ppm)
X-Pure GelMA 160P40	160	40	< 10	< 30
X-Pure GelMA 160P60	160	60	< 10	< 30
X-Pure GelMA 160P80	160	80	< 10	< 30
X-Pure GelMA 90P60	90	60	< 10	< 30
X-Pure GelMA custom	Customisable	Customisable	< 10	< 30

Research grade: 1-100 g

GMP grade: available upon request

@RousselotBio

gelma.com

Rousselot

rousselot.com/biomedical

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Go green
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For more information and/or an experimental sample of X-Pure® GelMA, please contact us at:

Rousselot Headquarters

Rousselot B.V. +31 499 364 100

Kanaaldijk Noord 20 biomedical@rousselot.com
5691 NM Son - The Netherlands

KEY BENEFITS OF X-PURE® GELMA:

- Readily available
- Appropriate for research and clinical applications
 - Consistent manufacturing process and product properties
 - Consistent batch-to-batch product quality
 - Ultra-low levels of pyrogens safeguarding cellular studies and clinical applications
 - Ultra-low levels of residual methacrylic acid ensuring consistent batch-to-batch gel mechanical behavior, and safety
 - Tailored, controlled and consistent mechanical properties
 - Supporting all documentation requirements for filings
 - Suitable for even the most restrictive applications
- Meet all regulatory requirements on quality, raw material sourcing and documentation
- Full traceability from raw material to final product

BENEFITS FROM ROUSSELOT'S LEADERSHIP:

- Global presence
- 125+ years of expertise in biomaterials
- Reliability, security of supply
- Extensive IP portfolio, potential use on an exclusive basis.