

# JellaGel™

Next Generation Jellyfish Collagen Hydrogel for *in vitro* cell culture and tissue engineering.

## PRODUCT DESCRIPTION

JellaGel\* is conveniently supplied in kit format with Buffer and Crosslinker for ease of use. Please refer to the gelling protocol and user guide for further information.

## Product Numbers

- JGEL10ML

## Product Contents

- 10ml JellaGel Solution
- 1.5ml Buffer
- Crosslinker

## FEATURES AND BENEFITS

FEATURES	BENEFITS
Biochemically Simple	No unwanted/undefined growth factors or biological contaminants that could negatively influence the culture of cells. Although biochemically simple, other biological agents (e.g. growth factors) can be added to JellaGel to provide a specific biological response (e.g. differentiation).
Non-mammalian & disease vector free	Purified jellyfish collagen alternative providing consistent, repeatable results.
Translatability	Suitable for <i>in vitro</i> to <i>in vivo</i> applications.
Batch to batch consistency	Offers improved research productivity allowing security of product consistency and reproducible results.
Evolutionary ancient collagen demonstrating sequence homology to collagen I, II, III & V	Universal applications for multiple cell types and regenerative medicine.
Produced in an ISO13485:2016 facility	Manufactured in a controlled and safe environment, fulfilling the expectations of customers and regulatory requirements.
Inert Material	Cleaner at miRNA level when compared to mammalian alternatives giving customers a cleaner cell culture with less off-target effects.
Easy to use	An easy to use hydrogel that doesn't require the use of ice or cold rooms. JellaGel can be formulated into a self-sustaining, cell-laden hydrogel at room temperature.

\*Patent number: 17767893.5

The grade of Jellagen® jellyfish collagen used to manufacture this hydrogel has been tested to verify its applicability for routine cell culture research using human primary and iPSC-derived cell lines. Jellagen® Jellyfish collagen has been shown to promote cellular attachment, proliferation and differentiation to develop functional matrices.

Cell lines that have been cultured successfully on Jellagen® jellyfish collagen include, but are not limited to: Mesenchymal Stem Cells (MSC's), fibroblasts, hepatocytes, endothelial cells, keratinocytes, chondrogenic progenitor cells, Urine Derived Stem Cells (UDC's), cardiomyocytes, ovarian cancer cells, iPSC-derived microglia, HeLa and HEK293T.

## JELLAGEL HYDROGEL KIT

PRODUCT INFORMATION	
Format	10ml
Collagen	Jellyfish collagen (Marine Type 0)
Concentration	3.7-4.3 mg/ml
Serum level	Serum free
Storage: JellaGel Solution & Buffer	Store at 2-8°C
Storage: Crosslinker	Freeze on arrival
Shelf life	Product under validation
Turbidity	Clear to Opaque
Bioburden	<5 CFU/ml
pH	2.5-4.0

## POST GELLING MATERIAL

PRODUCT INFORMATION	
Clarity	Translucent
pH	7.3 - 7.6

## DISCLAIMER

This product is for R&D use only and is not intended for human or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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