Jellagen
NEXT GENERATION COLLAGEN

PRODUCT TECHNICAL SPECIFICATION

JellaGel™

Next Generation Collagen Type 0 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.

Higher concentration JellaGel offers the user the ability to tune physical properties (e.g. stiffness and density) by varying the concentration of components (e.g. crosslinker and/or collagen solution).

Tuning the JellaGel will allow users to optimize the performance with their cells of interest and/or the desired application.

Product Numbers

Standard Concentration

- JGEL5ML
- JGEL10ML
- JGEL100ML

High Concentration

- JGEL5ML-C
- JGEL10ML-C
- JGEL100ML-C

Product Contents

- JellaGel Solution
- 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 Collagen Type 0 alternative providing consistent, repeatable results.
Translatability	Suitable for *in vitro* to *in vivo* 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

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The Collagen Type 0 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. Collagen Type 0 has been shown to promote cellular attachment, proliferation and differentiation to develop functional matrices.

Cell lines that have been cultured successfully on Collagen Type 0 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	5ml/10ml/100ml
Collagen	Collagen Type 0
Standard Concentration	3.7-4.3 mg/ml
High Concentration	7.5-8.5 mg/ml
Serum level	Serum free
Storage: JellaGel Solution & Buffer	Store at 2-8°C
Storage: Crosslinker	Freeze on arrival
Shelf life	12 months
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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