



ReproMed™ iPSC Medium

From the pioneer of stem cell culture media manufacturer in Japan comes **ReproMed™ iPSC Medium**, a breakthrough formulation for Regenerative Medicine.

- High performance medium for iPSCs
- Manufactured under GMP compliance
- Suitable for clinical research applications
- Meets Japan regulatory materials standards
- Backed by REPROCELL's quality and experience

Overview

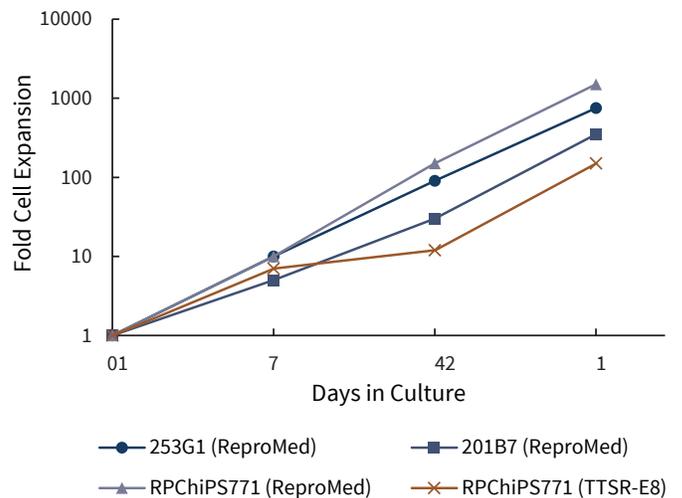
ReproMed iPSC Medium is formulated and designed for cultivation of iPSC cells destined for cell therapy applications. In close consultation with regulatory authorities we have formulated a medium with components meeting the strict purity and traceability standards of Japan. The product has been manufactured in GMP-compliant facilities for added safety and reproducibility. ReproMed iPSC Medium is validated for tri-lineage pluripotency by *in vitro* differentiation into mesoderm, endoderm and ectoderm cell lineages. Backed by over a decade of quality and experience, REPROCELL is a brand you can trust.

Figure 1. ReproMed™ iPSC Medium supports robust growth of multiple iPSC lines. For preparing complete medium, supplementation of ReproMed™ with basic FGF is required to 10 ng/mL. The complete medium provides robust growth and expansion for iPSC regardless of the reprogramming method employed (253G1, 201B7 iPSC were reprogrammed using retrovirus by Kyoto Univ.; RPChiPS771 iPSC was reprogrammed using mRNA by Stemgent). The ReproMed growth data demonstrates 500× to 1000× fold expansion in suspension culture in 3 weeks, out-performing another leading brand of medium.



ReproMed iPSC Culture Medium
Cat. No. RCRM101

Growth of iPSCs cultured in
ReproMed™ iPSC Medium



For clinical research use of ReproMed iPSC Medium, please consult with REPROCELL regarding options and additional information relevant to regulatory compliance.

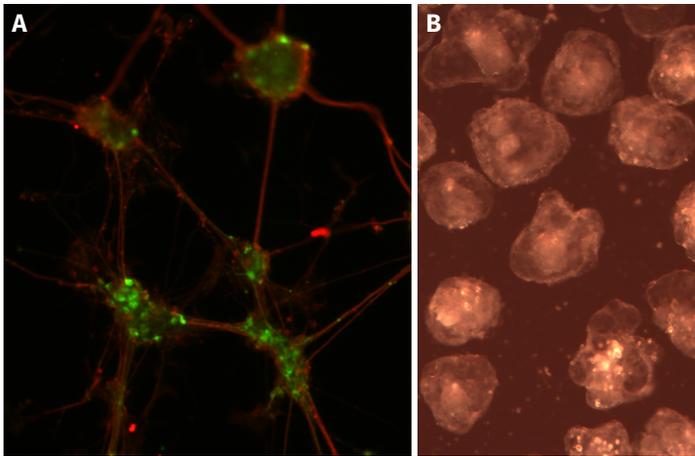


Figure 2. Induced pluripotent stem cells when grown in ReproMed iPSC Medium and differentiated, display robust biomarker expression and high functionality. Panel A shows differentiated neurons immuno-stained with fluorescent antibody markers for tyrosine hydroxylase (green) and β -tubulin (red). Panel B shows differentiated cardiomyocytes in spheroid culture, nearly 100% of which are confirmed for rhythmic beating.



StemRNA™ 3rd Gen Reprogramming

REPROCELL offers custom iPSC cell production services using the most rapid, robust and clinically-relevant integration-free reprogramming technology. Our GMP-compatible mRNA reagents and protocols can reprogram fibroblasts, and cells-types derived from human blood and urine specimens. Talk to us about research or GMP-compliant iPSC cell derivation and processing. Stem cell service labs are located in Japan, USA and the UK. StemRNA™ 3rd Gen Reprogramming is exclusively available from REPROCELL.

Regenerative Medicine Qualified Products

REPROCELL's Regenerative Medicine Qualified products are designed to address quality and traceability standards with a focus on recombinant proteins, chemically-defined and/or xeno-free components. Furthermore, some REPROCELL products are manufactured under GMP-compliance. Our team of experts believe these criteria are useful to hasten cell therapy product approvals with global regulatory authorities. Please consult us for more details.

In translational research and clinical development, not all products necessarily need to be fully regulatory compliant, but higher quality standards than the typical research grade are favored. REPROCELL also has products and services that employ GMP compliant laboratories and protocols, but are not fully documented during manufacturing as GMP. Excellent for process development, we refer to these products as GMP-compatible grade; marked as (O) in the table below. When needed, fully GMP-compliant product can be made available through custom orders.

Product name	Quantity	Cat. No.	Xeno-free	Chemically-defined	GMP-Compliant Manufacturing
ReproMed™ iPSC Culture Medium	500 mL	RCRM101	(★)		✓
ReproCryo RM	50 mL	RCHEFM004	(★)	✓	✓
Stemfactor FGF-basic, human recombinant	50 µg	03-0002	✓	✓	
iMatrix-511 Substrate	6 x 175 µg	NP892-012	✓		✓
Stemfactor HGF, human recombinant	25 µg	03-0019	✓	✓	(O)
StemRNA 3rd Gen Reprogramming Kit	1 kit	00-0076	✓	✓	(O)

(★) These products do not contain any non-human material at the primary component level. (O) Manufacturing employs GMP-compliant laboratories and protocols, but the product is not fully documented as GMP. Fully GMP-compliant product can be made available through custom orders.

iMatrix-511 is a product of Matrixome Corp., Japan.

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