Enabling your pluripotent stem cell therapy research

Translate your research to the clinic with CTS iPSC media and reagents

Gibco[™] Cell Therapy Systems (CTS[™]) products have been developed to help facilitate the transition from discovery to clinical and commercial manufacturing by providing high-quality, GMP-manufactured ancillary materials, helping ensure commercial-scale production. These materials are extensively qualified, traceable, and accompanied by regulatory documentation. Advancing your induced pluripotent stem cell (iPSC) therapy research to clinical applications requires careful material selection, as the quality of starting materials can significantly impact the properties of your final stem cell therapy product.

When you choose CTS products, you can expect:



GMP-manufactured products

- Designed to meet the latest guidance for ancillary materials for cell and gene therapy (CGT) (USP <1043>,* ISO 20399, EP 5.2.12.)
- Products manufactured under global quality standards (QMS ISO 9001 or 13485)
- Over 30 years of GMP-compliant manufacturing

Testing and documentation

- Extensive qualification and testing of critical raw materials
- Final product testing (e.g., mycoplasma, endotoxin, sterility)
- Types of traceability documentation: CoO, CoA, SDS



Dedicated regulatory and quality control teams

- Types of specialized documentation include Drug Master File, Regulatory Support File, validation, and regulatory agency letters
- Products used in over 200 clinical trials and commercialized therapies
- Global CGT regulatory affairs teams with regional expertise

* CTS products are designed to meet USP <1043>, ancillary material responsibilities for cell, gene, and tissue-engineered products, under a robust quality management system certified to ISO 9001 or 13485. All aspects of USP <1043> are the responsibility of the end user to assess. We are dedicated to supporting our customers' clinical translation.



iPSC manufacturing workflow

Reprogramming	Cell engineering	Cell expansion	Banking and recovery	Differentiation
Cell culture media Sibco [™] CTS [™] KnockOut [™] SR XenoFree Medium Cell reprogramming Invitrogen [™] CTS [™] CytoTune [™] -IPS 2.1 Sendai Reprogramming Kit Gibco [™] CTS [™] Essential 8 [™] Medium Gibco [™] CTS [™] DPBS Thermo Scientific [™] Herasafe [™] 2030i Biological Safety Cabinet CTS [™] Series – EN12469	Closed cell processing Gibco [™] CTS [™] Rotea [™] Counterflow Centrifugation System Nonviral platform • Gibco [™] CTS [™] Xenon [™] Electroporation System • Gibco [™] CTS [™] TrueCut Cas9 Protein • Gibco [™] CTS [™] HiFi Cas9 Protein Lentiviral production system Gibco [™] CTS [™] HiFi Cas9 Protein Cell culture media and reagents • Gibco [™] CTS [™] StemFlex [™] Medium • Gibco [™] CTS [™] Essential 8 [™] Medium • Gibco [™] CTS [™] Vitronectin (VTN-N) Recombinant Human Protein, truncated	Cell culture media and supplements • Gibco [™] CTS [™] StemScale [™] PSC Suspension Medium • CTS StemFlex Medium • CTS Storemetal & Medium • CTS Vitronectin (VTN-N) Recombinant Human Protein Dissociation reagents • Gibco [™] CTS [™] Versene [™] Solution • Gibco [™] CTS [™] TrypLE [™] Select Enzyme • Gibco [™] CTS [™] DPBS, without CaCl ₂ and MgCl ₂ Cell culture plastics • Thermo Scientific [™] Nunc [™] TripleFlask [™] Treated Cell Culture Flask • Thermo Scientific [™] Nunc [™] Cell Factory systems Fit-for-purpose lab equipment Thermo Scientific [™] Sorvall [™] X4 Pro centrifuges CO ₂ incubators Thermo Scientific [™] Heracell [™] Vios 160i CR CO ₂ Incubator	Cryopreservation • Gibco [™] CTS [™] PSC Cryopreservation Kit • Gibco [™] CTS [™] PSC Cryomedium Cell recovery Gibco [™] CTS [™] RevitaCell [™] Supplement	Cell culture media and reagents • Gibco [™] CTS [™] Essential 6 Medium • CTS KnockOut SR XenoFree Medium • Gibco [™] CTS [™] KnockOut [™] DMEM • Gibco [™] CTS [™] N-2 Supplement • Gibco [™] CTS [™] B-27 [™] Supplement XenoFree Gibco [™] PeproGMP [™] cytokines and growth factors
		Characterization		

Invitrogen[™] CellModel[™] Services—for stem cell characterization

We support the development of your iPSC therapy from the earliest stages with

high-quality Research Use Only products. Learn more at thermofisher.com/stemcells

Ordering information

CTS B-27 Supplement XenoFreeA5047501CTS CytoTune-iPS 2.1 SendaiA34546Reprogramming KitA34546CTS DPBS, without calcium chloride, without magnesium chlorideA1285602CTS Essential 6 MediumA4238501CTS Essential 8 MediumA2656101CTS HiFi Cas9 ProteinA54223CTS KnockOut DMEMA1286101CTS LV-MAX Production MediumA4124001CTS PSC CryomediumA4238801CTS PSC CryomediumA4238801CTS RevitaCell Supplement (100X)A4238401CTS Rotea Counterflow Centrifugation Systemthermofisher.com/rotea	Product	Cat. No.	
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CTS Rotea Counterflow thermofisher com/rotea	CTS PSC Cryopreservation Kit	A4239301	
thermofisher com/rotea	CTS RevitaCell Supplement (100X)	<u>A4238401</u>	
Centrifugation System	CTS Rotea Counterflow	thermeficher com/retee	
	Centrifugation System	thermonsner.com/rotea	

Product	Cat. No.	
CTS StemFlex Medium	<u>A5465001</u>	
CTS StemScale PSC	<u>A5869601</u>	
Suspension Medium		
CTS TrypLE Select Enzyme	<u>A1285901</u>	
CTS Versene Solution	<u>A4239101</u>	
CTS Vitronectin (VTN-N) Recombinant	<u>CTS27953</u>	
Human Protein, truncated		
CTS Xenon Electroporation System	thermofisher.com/xenon	
Heracell Vios 160i CR CO ₂ Incubator	<u>51033770</u>	
Herasafe 2030i Biological Safety	<u>51033758</u>	
Cabinet CTS Series - EN12469		
Nunc Cell Factory systems	<u>139446</u>	
Nunc TripleFlask Treated Cell	<u>132867</u>	
Culture Flask		
Sorvall X4 Pro centrifuges	<u>75009505</u>	
CTS TrueCut Cas9 Protein	<u>A45220</u>	
PeproGMP cytokines and	thermofisher.com/peprogmp	
growth factors		

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