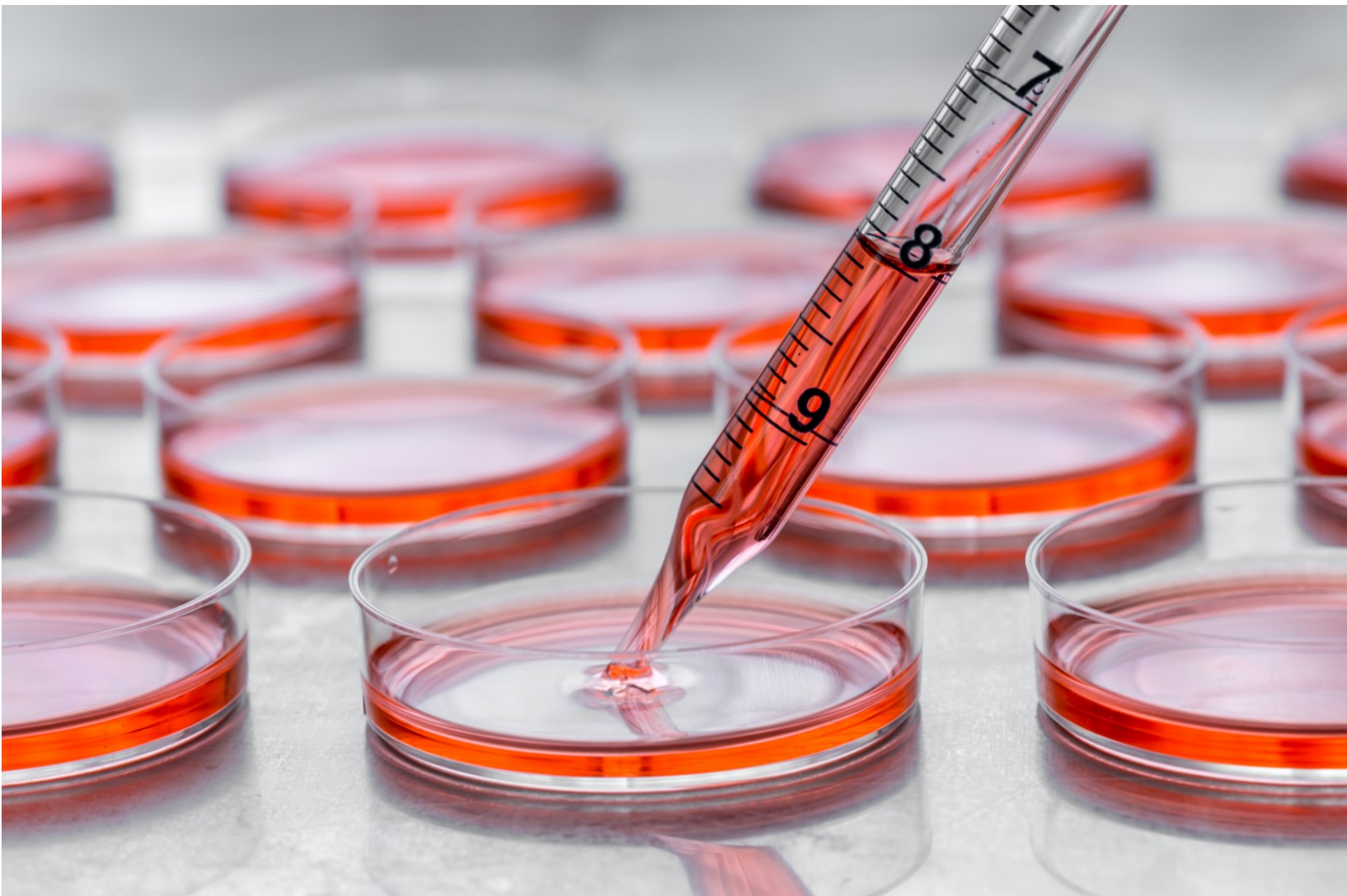


Y-27632

Cell Passaging / Freezing / Thawing Protocol



Y-27632 is a low-molecular-weight compound that has been reported to suppress the death of human ES/iPS cells during cell dispersion and improve cell viability after cryopreservation/thawing. Here we present a protocol for passaging, freezing, and thawing human ES/iPS cells (single cells), using our product Y-27632. See the back cover for other reagents, etc. used in the protocol.

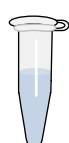
Y-27632 products list

Wako Cat. No.	Product Name	Grade	Package Size
252-00701	Y-27632 (GMP-compliant)	For Cell Culture	5 mg
258-00703	This product is complied with ICH-Q7 (GMP for APIs) and is intended as a raw material for the commercial production of regenerative medicine products.		25 mg
259-00613	Y-27632, MF		5 mg
257-00614	This is an ISO9001-compliant product developed for the commercial manufacturing of regenerative medicine products.		25 mg
030-24021	CultureSure® Y-27632		1 mg
036-24023			5 mg
034-24024			25 mg
030-24026			100 mg
039-24591			300 µL
035-24593	CultureSure® 10mmol/L Y-27632 Solution, Animal-derived-free		1 mL

Preparation

1. Preparation of 10 mmol/L Y-27632 solution

This procedure is not necessary when a prepared solution product (039-24591, 035-24593) is used.



Dissolve Y-27632 (powder) in sterile water to a concentration of 10 mmol/L (3.38 g/L).



Filter the solution through a 0.22 µm filter.

The procedures should be performed in a safety cabinet, on a clean bench, etc.

When stored, the solution should be dispensed into single-use portions in sterilized containers and cryopreserved.

2. Addition of Y-27632 solution to the medium



Human ES/iPS cell culture medium (hPSC medium)

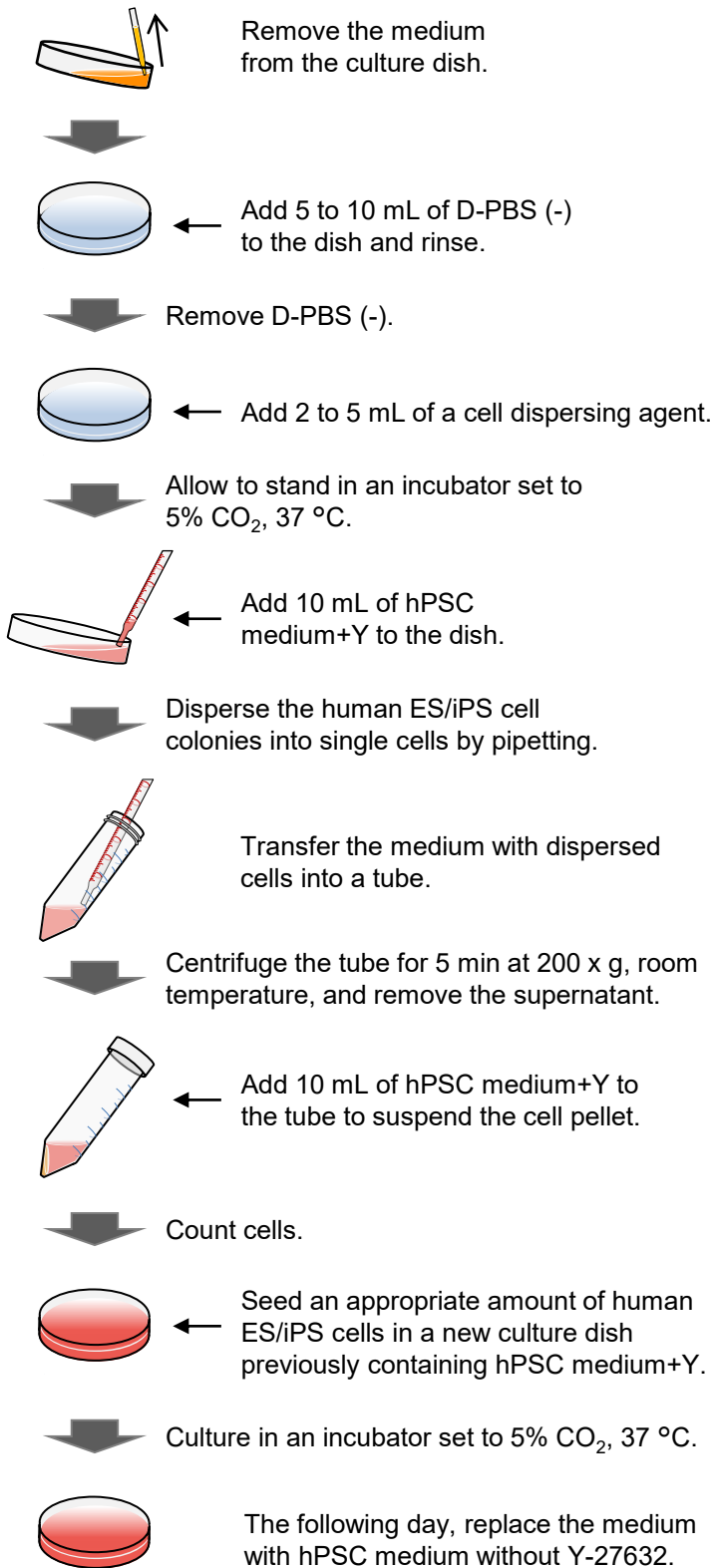
← Add 10 mmol/L Y-27632 solution to give a final volume of 1/1,000 that of the medium (final concentration: 10 µmol/L).

Mix well.

Hereinafter, the hPSC medium supplemented with Y-27632 is referred to as "hPSC medium+Y".

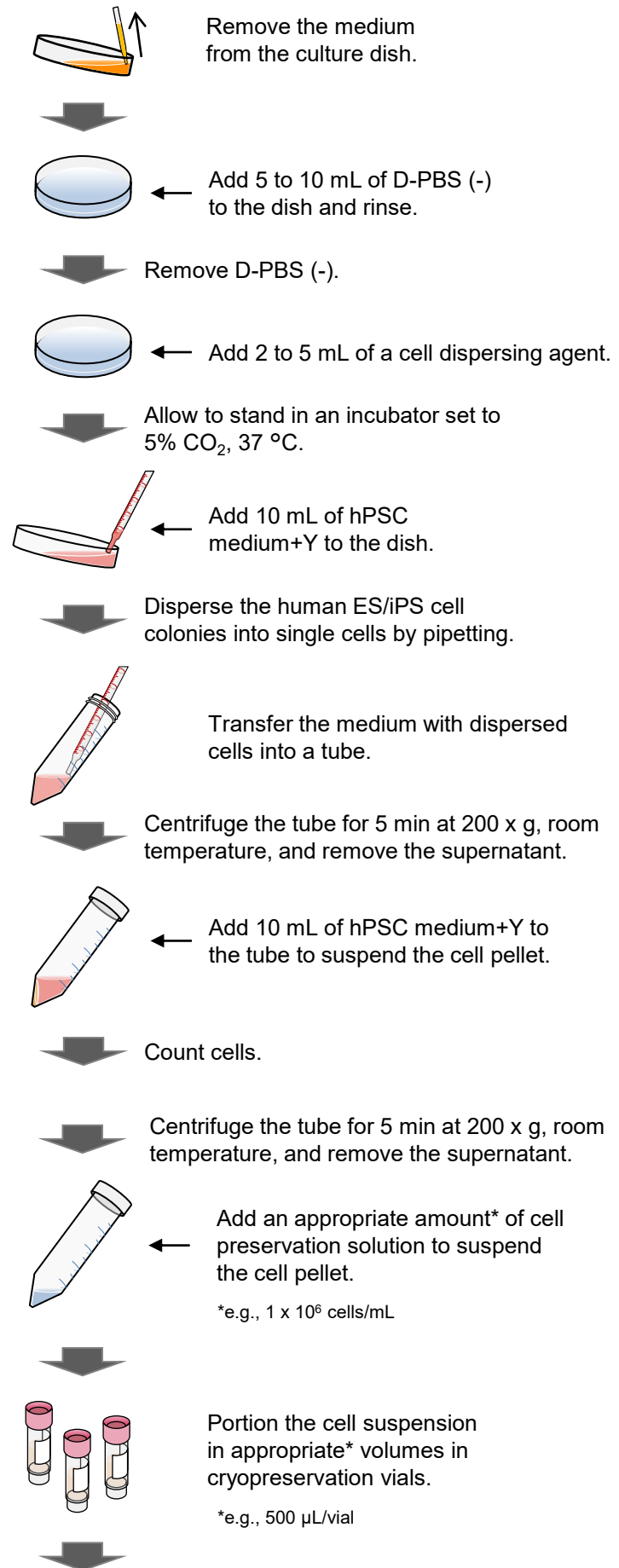
Cell Passaging (single cells)

For one 10-cm dish



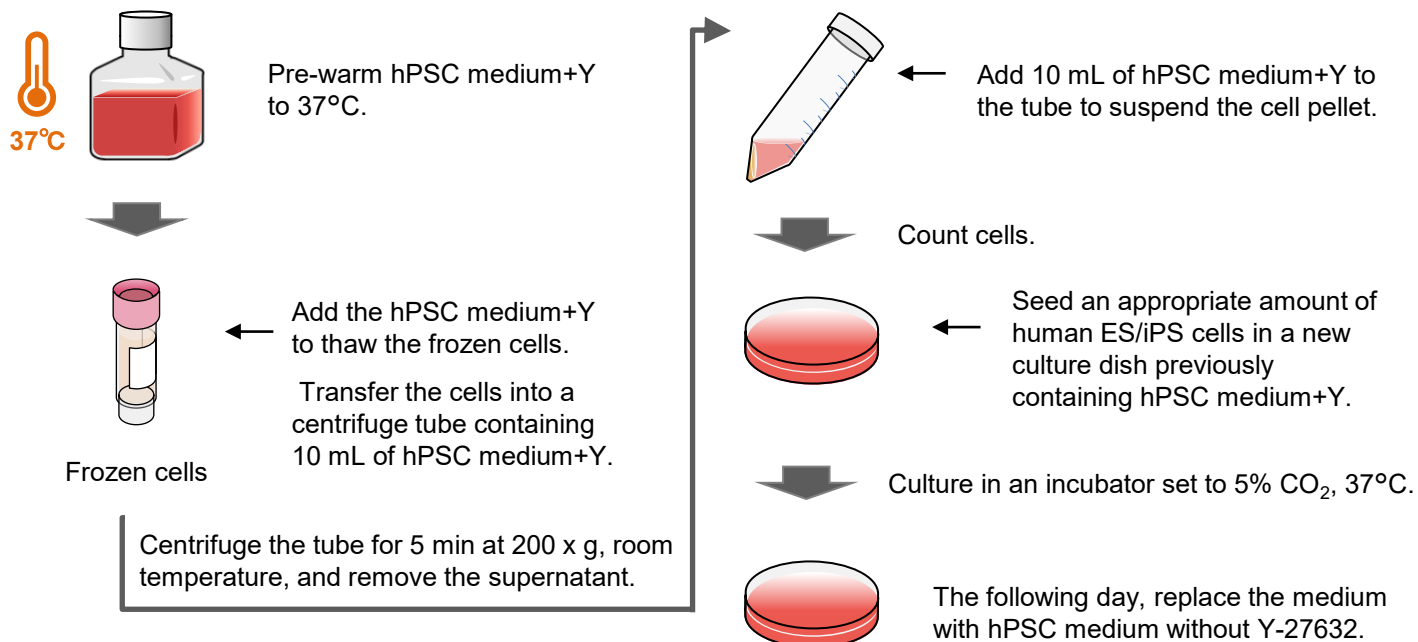
Cell Freezing (single cells)

For one 10-cm dish



Store at the recommended temperature for cryopreservation.
For long-term storage, store in -150°C or liquid nitrogen.

Cell Thawing



Related Products

Wako Cat. No.	Product Name	Grade	Package Size
033-26071	CultureSure™ CEPT Cocktail (1,000×)	For Cell Culture	300 µL
197-17571	StemSure® hPSC Medium Δ <i>This product does not contain bFGF (basic fibroblast growth factor).</i>	For Cell Culture	100 mL
193-17573			100 mL x 4
064-05381	Fibroblast Growth Factor (basic)(FGF-basic / bFGF / FGF2), Human, recombinant, Animal-derived-free(154aa) (powder)	For Cell biology	50 µg
068-05384			100 µg
060-05383			1 mg
039-24155	CultureSure® Sterile Water (Endotoxin and Mycoplasma Free)	For Cell Culture	500 mL
045-29795	D-PBS(-)		500 mL
043-29791			1 L
049-29793			500 mL x 10
203-20251	Trypsin-EDTA Solution without Phenol Red, AF		100 mL
205-20255			500 mL
195-16031	StemSure® Freezing Medium		100 mL
220-02041	Vitronectin(20-398 aa), Human, recombinant, Solution <i>Dish coating material</i>	For Biochemistry	500 µg

Listed products are intended for laboratory research use only, and not to be used for drug, food or human use. / Please visit FUJIFILM Wako Laboratory Chemicals site: <https://labchem-wako.fujifilm.com/> / This leaflet may contain products that cannot be exported to your country due to regulations. / Bulk quote requests for some products are welcomed. Please contact us.

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