

ClonaCell™-TCS Medium



Semi-solid methylcellulose-based medium for selecting and cloning suspension-adapted and adherent cells (serum-containing)

Catalog # 03814

80 mL

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Product Description

ClonaCell™-TCS (Transfected Cell Selection) Medium is a semi-solid methylcellulose-based medium that can be used for selecting and cloning a variety of suspension-adapted and adherent cell lines. This medium contains pre-selected fetal bovine serum (FBS) and bovine serum albumin (BSA) and does not contain selection agents or antibiotics, allowing the user to choose their preferred method of selection. The medium has been shown to support robust growth of a wide variety of cell types.

ClonaCell™-TCS Medium is also available in a kit that includes the antibiotic G418 (Catalog #03822) or hygromycin B (Catalog #03823).

• Supports high cloning efficiency and robust colony formation for a variety of cell lines such as: B16F-10, BaF/3, BHK-1, CHO-K1, CHO-S, FD-5, HEK-293, Jurkat Daudi, K562, Molt-4, UT-7

Properties

Storage:	Store at -20°C.
Shelf Life:	Stable until expiry date (EXP) on label.
Contains:	<ul style="list-style-type: none">• IMDM (Iscove's Modified Dulbecco's Medium)• Methylcellulose• Pre-selected serum• Bovine serum albumin• 2-Mercaptoethanol• Phenol red• L-Glutamine• Other ingredients

Handling / Directions For Use

1. Thaw ClonaCell™-TCS Medium at room temperature (15 - 25°C) or overnight at 2 - 8°C. Mix well.
NOTE: Do not thaw ClonaCell™-TCS Medium in a 37°C water bath.
If not used immediately, aliquot ClonaCell™-TCS Medium into tubes and store at -20°C. Do not exceed expiry date as indicated on the label.
2. Add Iscove's MDM, additives appropriate for the cell type and selection system used (e.g. growth factors, supplements, or selection agents), and cells in a volume of 20 mL to achieve a final volume of 100 mL.
NOTE: The total volume for adding liquid medium, supplements, and cells is 20 mL per bottle. This volume should not be exceeded, as this will result in low viscosity of the medium and will produce "runny" colonies (i.e. colonies that will not stay together). If a higher viscosity medium is desired, the volume added to the bottle may be reduced (e.g. 15 mL of supplements and cells instead of 20 mL, resulting in a final volume of 95 mL).
3. Shake the bottle vigorously to mix well. Let stand for 5 - 10 minutes to allow bubbles to dissipate.
4. Using a syringe attached to a 16 gauge Blunt-End Needle (Catalog #28110), dispense into dishes. Distribute evenly by gently tilting or rotating each dish.
NOTE: Do not use a standard pipette to aliquot methylcellulose as the volume dispensed will not be accurate. Use of blunt-end needles for dispensing prevents needle-stick injuries.
5. Incubate at 37°C for 12 - 16 days. Do not disturb the cultures, as this can result in diffuse colonies.
NOTE: A longer incubation time may be required for some cell lines or selection systems.

For complete instructions on how to use ClonaCell™-TCS Medium, please refer to the Technical Manual: Semi-Solid Cloning Testing Guidelines (Document #28096), available at www.stemcell.com or contact us to request a copy.

References

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