

# ClonaCell™-TCS Medium

## Transfected Cell Selection and Cloning Medium

Catalog # 03814

80 mL



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FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

## Product Description

ClonaCell™-TCS Medium is a serum-containing, methylcellulose-based semi-solid medium that can be used for selection and cloning of a variety of suspension-adapted and adherent cell lines. Cell lines shown to form colonies in ClonaCell™-TCS Medium include BHK-1, CHO-K1, CHO-S, CHO-DG44, and HEK-293. This medium contains pre-selected fetal bovine serum (FBS) and bovine serum albumin (BSA) and supports robust growth of a wide variety of cell types. ClonaCell™-TCS semi-solid medium does not contain selection agents or antibiotics.

## Properties

- Storage:** Store at -20°C.
- Shelf Life:** Stable until expiry date (EXP) on label.
- Contains:**
- IMDM
  - Pre-selected serum
  - BSA
  - L-Glutamine
  - 2-Mercaptoethanol
  - Methylcellulose

## 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 "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 on our website at [www.stemcell.com](http://www.stemcell.com) or contact us to request a copy.

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