

ClonaCell™-HY Medium D without HAT



Semi-solid methylcellulose-based medium for hybridoma selection and cloning, without HAT (serum-containing)

Catalog # 03810 90 mL

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Product Description

ClonaCell™-HY Medium D without HAT is a semi-solid methylcellulose-based medium that does not contain any selection agents such as HAT (hypoxanthine, aminopterin, and thymidine), enabling alternative hybridoma or myeloma selection methods to be used. This product can be used to select and clone myelomas or hybridomas in one step by adding an appropriate selection agent to the medium. Individual parental clones and their progeny remain localized together in the semi-solid matrix as they grow to form distinct colonies. This prevents the loss of rare clones by overgrowth from faster-growing cells, as can occur during selection in a liquid medium, and facilitates the isolation of monoclonal colonies. The colonies can be easily picked from the semi-solid medium by manual or robotic methods and dispersed into a liquid medium for screening and expansion. This serum-containing medium has been verified for use in mouse and rat hybridoma development and reportedly is compatible for production and cloning of myelomas and/or hybridomas using lymphocytes from a variety of host animals including human, mouse, rat, and hamster.

- Time savings: Hybridoma selection and cloning are combined into one step
- Resource savings: Single-cell derived hybridomas form visible discrete colonies in semi-solid medium, and are easy to pick and transfer to liquid medium for screening and expansion
- Cloning efficiency: Individual cells are suspended and immobilized in semi-solid medium, preventing loss of rare, high-producing clones due to overgrowth
- Customizable: Allows user to adapt an existing selection method

Properties

- Storage:** Store at -20°C.
- Shelf Life:** Stable until expiry date (EXP) on label.
- Contains:**
- DMEM
 - Methylcellulose
 - Pre-selected serum
 - Gentamicin
 - 2-Mercaptoethanol
 - Phenol red
 - L-Glutamine and other supplements
 - Other ingredients

Handling / Directions For Use

1. Thaw ClonaCell™-HY Medium D without HAT at room temperature (15 - 25°C) or overnight at 2 - 8°C. Mix well.
NOTE: Do not thaw ClonaCell™-HY Medium D without HAT in a 37°C water bath.
2. If ClonaCell™-HY Medium D without HAT is not used immediately, store at 2 - 8°C for up to 1 week. Alternatively, aliquot and store at -20°C until expiry date as indicated on the label. After thawing aliquots, use immediately. Do not re-freeze.
3. Add appropriate supplements and selection agents prior to use.

For further information, refer to the Technical Manual: ClonaCell™-HY: A Complete Workflow for Hybridoma Generation (Document #28411), available at www.stemcell.com or contact us to request a copy.

References

- Baig A et al. (2014) Development and characterization of monoclonal antibodies for rapid detection of *Acinetobacter baumannii*. *Monoclon Antib Immunodiagn Immunother* 33(4): 291–8.
- Li W et al. (2009) The serine protease marapsin is expressed in stratified squamous epithelia and is up-regulated in the hyperproliferative epidermis of psoriasis and regenerating wounds. *J Biol Chem* 284(1): 218–28.

Rodríguez L et al. (2015) Generation of monoclonal antibodies specific of the postfusion conformation of the Pneumovirinae fusion (F) protein. J Virol Methods 224: 1–8.

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