

CL-0007

4T1 (小鼠乳腺癌细胞)

1.Origin and General Characteristics	
Cell Name	4T1
Synonyms	4T1-A
Organism	Mus Musculus, Mouse
Age	
Tissue	Mammary gland
Morphology	Epithelial
Growth Properties	Adherent
Descriptions	<p>When injected into BALB/c mice, 4T1 spontaneously produces highly metastatic tumors that can metastasize to the lung, liver, lymph nodes and brain while the primary tumor is growing in situ.</p> <p>The primary tumor does not have to be removed to induce metastatic growth.</p> <p>Because 4T1 is resistant to 6-thioquanine, micro-metastatic cells (as few as 1) can be detected in many distant site organs with better accuracy than most tumor models.</p>
Biosafety Level	1
2.Culture Conditions and Handling	
Complete Growth Medium	RPMI-1640 (PM150110) + 10% FBS (164210-500) + 1% P/S (PB180120)
Subculturing	<p>Remove and discard culture medium. Briefly rinse the cell layer with DPBS solution to remove all traces of serum that contains trypsin inhibitor.</p> <p>Add 1.0 to 2.0 mL of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 1~2min). Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.</p> <p>Add 4.0 to 6.0 mL of complete growth medium and aspirate cells by gently pipetting. Add appropriate aliquots of the cell suspension to new culture vessels.</p>
Split Time	1~2min
Subcultivation Ratio	1:3-1:4
Doubling Time	
Medium Renewal	every 2 to 3 days
Cryopreservation	Freeze Medium: 55% Basal Medium+40% FBS+5% DMSO Storage Temperature: Liquid Nitrogen Vapor Phase
Culture Conditions	Atmosphere: Air, 95%; CO ₂ , 5%; Temperature: 37°C
3.Special Features of the Cell Line	
Tumorigenic	Yes
Receptor Expression	
Antigen Expression	
Applications	<p>The tumor growth and metastatic spread of 4T1 cells in BALB/c mice very closely mimic human breast cancer. This tumor is an animal model for stage IV human breast cancer.</p> <p>4T1-induced tumors can be used as a post-operative model as well as a non-surgical model because the 4T1-induced tumor metastasizes spontaneously in both models with similar kinetics.</p>
Cell Line Collections	ATCC; CRL-2539

使用前请仔细阅读说明书。如果有任何问题，请通过以下方式联系我们：

全国免费电话：400-650-3656

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细胞株培养扩增技术服务申明

本公司受贵单位委托，进行细胞株的技术服务工作，并收取相应细胞株技术服务费用，细胞株技术服务具体项目清单见订购合同。本公司提供完善的技术支持及售后服务，收到产品后处理方式及相应售后条款参见《细胞售后条例》。

收到常温细胞后如何处理？

(细胞培养详细操作步骤请参照[《普诺赛细胞培养操作指南》](#))

1. 收到常温细胞后，及时**拍照记录有无漏液/瓶身破损现象**。
2. 用 75%酒精擦拭细胞培养瓶表面，显微镜下观察细胞状态。**先不要打开培养瓶盖，将细胞置于细胞培养箱内静置培养 2-4 小时，以便稳定细胞状态。**
3. 仔细阅读细胞说明书，了解细胞相关信息，如**贴壁特性（贴壁/悬浮）、细胞形态、所用基础培养基、血清比例、所需细胞因子、传代比例、换液频率**等。
4. 静置完成后，取出细胞培养瓶，镜检、拍照，记录细胞状态**（所拍照片将作为后续服务依据）**；建议细胞传代培养后，**定期拍照**、记录细胞生长状态。
5. 若细胞生长密度超过 80%，可正常传代，首次传代推荐 1:2~1:3（按实际收货细胞密度决定，若不确定可联系技术支持）；若未超过 80%，移除细胞培养瓶内培养基，**预留 6mL 左右原瓶培养基继续培养**，直至细胞密度达 80%左右再进行传代操作，注意拧松瓶盖或更换透气瓶盖。
6. 由于气温、运输等影响造成贴壁细胞漂浮的，请将细胞离心收集后在离心管中消化后进行传代（参考邮件操作指南），或及时联系技术支持进行指导传代。
7. 若观察异常或者对细胞有疑问，请及时跟代理商或我们联系；对于细胞培养操作及培养注意事项有疑问的，可跟我们的技术支持交流。

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