



碧云天生物技术/Beyotime Biotechnology  
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## 胰酶细胞消化液(0.25%胰酶)

产品编号	产品名称	包装
C0201-100ml	胰酶细胞消化液(0.25%胰酶)	100ml
C0201-500ml	胰酶细胞消化液(0.25%胰酶)	500ml

### 产品简介:

- 碧云天生产的胰酶细胞消化液(Trypsin-EDTA Solution)含0.25%胰酶和0.02%EDTA, pH值为7.2-7.8。该消化液经过过滤除菌，可以直接用于培养细胞的消化，或者一些组织的消化。
- 本胰酶细胞消化液具有方便快速的特点，通常室温消化1分钟左右就可以消化下大多数贴壁细胞。使用本产品消化细胞的效果参考图1。通常在细胞出现明显的轻微形态变化，并且完全无需等细胞变圆时，即可吹打下细胞。

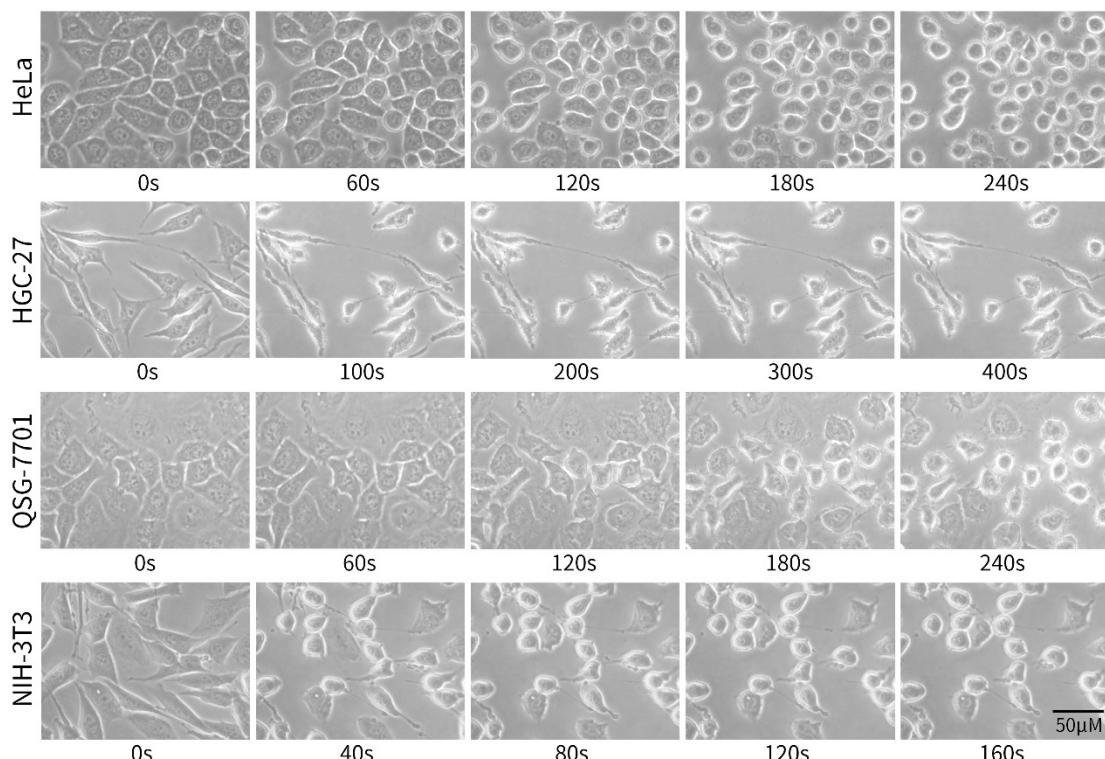


图1. 胰酶细胞消化液(0.25%胰酶)消化不同细胞的效果图。用胰酶细胞消化液(0.25%胰酶)分别消化HeLa、HGC-27、QSG-7701、NIH-3T3细胞，在1-2分钟内，显微镜下可观察到细胞边缘明显收缩，紧密贴合的细胞离散成单个细胞。注：本实验中，胰酶消化液室温放置10分钟左右，未经预热；细胞未经PBS洗涤，在吸净细胞培养液后直接加入适量胰酶消化液在约20°C室温进行消化，如果用PBS或HBSS等洗涤细胞用于去除残余的血清或室温达到25°C，消化效果会更好。实际效果会因细胞和实验条件的不同而略有差异，本图仅供参考。

### 包装清单:

产品编号	产品名称	包装
C0201-100ml	胰酶细胞消化液(0.25%胰酶)	100ml
C0201-500ml	胰酶细胞消化液(0.25%胰酶)	500ml
—	说明书	1份

### 保存条件:

4°C保存，一年有效。短期内不使用，推荐-20°C保存，-20°C可以保存更长时间。

### 注意事项:

- 在使用胰酶细胞消化液的过程中要特别注意避免消化液被细菌污染。
- 胰酶细胞消化液消化细胞时间不宜过长，否则细胞铺板后生长状况会较差。

- 本产品仅限于专业人员的科学的研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

## 使用说明：

### 1. 贴壁细胞的消化：

- 吸去培养液，用无菌的PBS、Hanks液或无血清培养液洗涤细胞一次，以去除残余的血清。
- 加入少量胰酶细胞消化液，略盖过细胞即可，室温放置30秒至2分钟。不同的细胞消化时间有所不同。
- 显微镜下观察，细胞明显收缩，并且肉眼观察培养器皿底部发现细胞的形态发生明显的变化；或者用枪吹打细胞发现细胞刚好可以被吹打下来。此时吸除胰酶细胞消化液。加入含血清的完全细胞培养液，吹打下细胞，即可直接用于后续实验。
- 如果发现消化不足，则加入胰酶细胞消化液重新消化。

如果发现细胞消化时间过长，未及吹打细胞，细胞已经有部分直接从培养器皿底部脱落，直接用胰酶细胞消化液把细胞全部吹打下来。1000-2000g离心1分钟，沉淀细胞，尽量去除胰酶细胞消化液后，加入含血清的完全培养液重新悬浮细胞，即可用于后续实验。

### 2. 组织的消化：

- 不同的组织需要消化的时间相差很大，通常以消化后可以充分打散组织为宜。

## 附录：不同胰酶细胞消化液的比较和选择

- 如果希望消化能力比较强，推荐选择C0201 胰酶细胞消化液(0.25%胰酶)和C0203 胰酶细胞消化液(0.25%胰酶，含酚红)，这两种胰酶细胞消化液都含有EDTA，消化能力相对更强一些。
- 如果希望观察比较方便，推荐选择含酚红的C0203 胰酶细胞消化液(0.25%胰酶，含酚红)和C0207 胰酶细胞消化液(0.25%胰酶，含酚红，不含EDTA)。
- 对于酚红可能会干扰后续的测试分析，推荐选择不含酚红的C0201 胰酶细胞消化液(0.25%胰酶)和C0205 胰酶细胞消化液(0.25%胰酶，不含EDTA)。
- 对于EDTA可能会干扰后续的测试分析时，推荐选择不含EDTA的C0205 胰酶细胞消化液(0.25%胰酶，不含EDTA)和C0207 胰酶细胞消化液(0.25%胰酶，含酚红，不含EDTA)。
- 对于胰酶特别敏感的细胞，即对于消化时间特别快、消化时间比较难控制的情况，推荐选择C0202胰酶细胞消化液(0.05%胰酶)或C0204 胰酶细胞消化液(0.05%胰酶，含酚红)。

## 相关产品：

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C0201-100ml	胰酶细胞消化液(0.25%胰酶)	100ml
C0201-500ml	胰酶细胞消化液(0.25%胰酶)	500ml
C0202	胰酶细胞消化液(0.05%胰酶)	100ml
C0203-100ml	胰酶细胞消化液(0.25%胰酶，含酚红)	100ml
C0203-500ml	胰酶细胞消化液(0.25%胰酶，含酚红)	500ml
C0204	胰酶细胞消化液(0.05%胰酶，含酚红)	100ml
C0205	胰酶细胞消化液(0.25%胰酶，不含EDTA)	100ml
C0207	胰酶细胞消化液(0.25%胰酶，含酚红，不含EDTA)	100ml

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