产品说明书 Instructions for Use



CelliMax[®] MetaCHO™培养基 CelliMax[®] MetaCHO™ Medium

Cat. No.: CPDP050 (Powder)

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产品简介:

Introduction

- 适用于 CHO 细胞的培养 For CHO cell culture
- 化学成分确定
 CD (Chemically Defined)
- 无动物源性成分
 ADCF (Animal Derived Component Free)
- 不含血清
 Serum free
- 不含有酚红
 Without Phenol Red
- 不含有次黄嘌呤和胸苷
 Without Hypoxanthine and Thymidine
- 不含有 L-谷氨酰胺
 Without L-Glutamine
- 不含有水解物和重组蛋白
 Without Hydrolysates and Recombinant Protein
- 含有 5.6g/L 葡萄糖 With 5.6g/L Glucose

存储条件:

Storage

- 1. 干粉培养基密封保存在 2~8℃的避光条件下。 Powder medium should be sealed at 2 to 8℃, away from light.
- 配制成的液体培养基密封保存在 2~8℃的避光条件下。

Liquid medium formulated from powder should be sealed dry at 2 to 8°C, away from light.

有效期*:

Shelf Life*

- 1. 干粉培养基未开封情况下有效期 2 年,开封后请尽快使用。详细信息请见标签。
 - Powder medium is valid for 2 years without opening. Please use as soon as possible after opening. Please refer to the label for details.
- *上述有效期的制定,均基于赛普生物的通用检测方法。客户可针对不同的使用用途或项目,进行单独的有效期研究。
- *The shelf life is based on the general testing method of CelluPro. It is suggested to study on validity for different uses or projects.

配制前建议:

Preparation Recommendations

- ◆ 洁净的配液容器。 Clean vessel.
- ◆ 高纯度水,如注射用水。
 High purity water (HPW) such as water for injection (WFI).
- ◆ 搅拌效率充足的配液系统。 Liquid mixing system with sufficient mixing efficiency.
- ◆ 校准的 pH 计 (建议校准点: 4.01、7.00、9.21)。 Calibrated pH meter (Recommended calibration points: 4.01, 7.00, 9.21).
- ◆ 校准的渗透压计(建议校准点: 0mOsmol/kg、300mOsmol/kg、700mOsmol/kg)。
 Calibrated osmometer (Recommended calibration points: 0, 300, and 700mOsmol/kg).
- 校准的浊度计(建议校准点: 0.02 NTU、20.0NTU、 100NTU、800NTU)。

烟台寨普生物技术有限公司 CelluPro, Ltd. 中国(山东)自由贸易试验区烟台片区烟台开发区北京中路 60 号 60 Beijing Middle Road, Economic & Technological Development Area, Yantai Municipality, Shandong Province, China

电话 / Phone; +86 535 3573398 电子邮箱 / E-mail: support@cellupro.cn www.cellupro.cn Calibrated turbidimeter (Recommended calibration points: 0.02 NTU, 20.0NTU, 100NTU, 800NTU).

- ◆ 储液系统。 Liquid storage system.
- ◆ 除菌过滤系统。 Sterile filtration system.
- ◆ 为防止误差,不建议进行3升以下的小规模配制。 Small-scale preparation less than 3 liters is not recommended to prevent errors.
- ◆ 为确保产品质量,所有与培养基接触的器具或耗材,需保证无支原体和细菌内毒素污染。 All utensils or consumables in contact with the

All utensils or consumables in contact with the medium shall be mycoplasma and bacterial endotoxin contamination risk free for product quality.

◆ 与过滤后的液体培养基接触的过滤系统和储液系 统需无菌。

Filtration system and liquid storage system in contact with the filtered liquid medium should be kept sterile.

◆ 建议增加 0.8μm 或 0.45μm 的预过滤,以加快过滤 速度并提高过滤载量。

Pre filtration at $0.8\mu m$ or $0.45\mu m$ is recommended to improve filtration speed and filtration load.

◆ 搅拌溶解时间与配制规模和搅拌效率相关,本文中所有提及的搅拌时间仅为小规模配制时的参考值。若配制规模大或搅拌系统效率低,则需适当延长各搅拌步骤的时间,以确保可以达到充分的混合及溶解效果。

Dissolution time varies with preparation scales and mixing efficiency. All the stirring time herein is a reference for small-scale preparation. For larger preparation scale or lower mixing efficiency, each mixing time needs to extend appropriately to ensure sufficient mixing and dissolution effect.

◆ 过长的配制时间会带来更高的微生物负荷及细菌 内毒素污染的风险,因此配制总时长不建议超过 12 小时。

Total preparation time is recommended not to exceed 12 hours, for long preparation time will pose higher risk of bioburden and endotoxin contamination.

配制方法:

Preparation Method

在洁净容器中加入终体积 80~85%的高纯度水,水温 20至 30℃*。

Fill a clean mixing vessel to 80 to 85% of the final volume with HPW at ambient temperature (20 to 30°C)*.

*配制温度仅为参考值,过低的温度会影响溶解效率, 过高的温度会加大微生物污染的风险,超过 37℃会影 响产品质量。

*The preparation temperature is for reference only. Low temperature will reduce dissolution efficiency, high temperature will increase the risk of microbial contamination, and over 37 °C will damage the quality.

- 2. 开始搅拌。搅拌速度调整为可使粉末快速地完全 浸没在溶液中,但**不会产生大量气泡**。 Start stirring. Mix at a suitable speed until completely dissolved without many bubbles generated.
- 3. **缓慢**加入培养基干粉 **21.55g/L***,避免大块干粉直接加入水中,搅拌**不少于 30 分钟**至完全溶解,此时溶液**仍有浑浊**为正常现象。

While stirring, slowly add 21.55g/L* powder medium to the vessel, avoiding formation of clumps. Mix at least 30 minutes until dissolved. The solution will remain cloudy in this step.

*本文中涉及的所有物料重量,应尽可能保证最小的误差。若误差无法避免,应结合实际情况进行研究。

*The weight error should be kept in minimum for all materials involved herein. If the error is unavoidable, it should be studied based on the actual situation.

缓慢加入 6mol/L 氢氧化钠溶液*,调整培养基溶液 pH 至 6.00~6.30,溶液变澄清透明,继续搅拌 15~30 分钟。

Slowly add 6mol/L NaOH solution*, adjust the pH to 6.00 to 6.30 until the solution is clear, and stir for 15 to 30 minutes.

*可按照比例折算使用其他浓度的氢氧化钠溶液,但不 建议使用氢氧化钠粉末,因为局部过高的 pH 可能会产 生损伤。

*Other concentrations of NaOH solution can be converted in proportion. NaOH powder is not recommended in case local high pH causes damage.

5. **缓慢**加入 **2.00g/L** 碳酸氢钠粉末,继续搅拌 **15~30** 分钟。

Slowly add 2.00g/L sodium bicarbonate powder and stir for 15 to 30 minutes.

6. 搅拌时间结束后,检测培养基溶液 pH。缓慢加入

6mol/L 氢氧化钠溶液,调整培养基溶液 pH 至 **7.00~7.30***。

After stirring, test the pH and slowly add 6mol/L NaOH solution to adjust the pH to 7.00 to 7.30*.

*pH 调整时应注意控制氢氧化钠溶液的使用量,避免过度调整导致培养基最终渗透压超出标准范围。

*The addition amount of NaOH solution shall be controlled to adjust the pH, avoiding out-of-specification osmolality caused by excessive adjustment.

- 使用高纯度水定容至终体积(ρ=1.008kg/L,仅供参考),继续搅拌 10~30 分钟。
 Add HPW to the final volume (ρ=1.008kg/L, for reference only) and mix for 10 to 30 minutes.
- 8. 此时检测渗透压应为 270~330mOsmol/kg, 浊度应 <3.0NTU。

At this time, expected osmolality is 270 to 330mOsmol/kg, and expected turbidity is <3.0NTU.

- 使用除菌滤器 (≤0.22μm) 过滤除菌*。
 Sterilize with sterile filter (≤0.22μm)*.
 * 建议使用任任企务判决键 加聚停一幅 Z 條 PV
 - *建议使用低结合类型滤膜,如聚偏二氟乙烯 PVDF、 聚醚砜 PES 或醋酸纤维素 CA。
 - *It is recommended to use a low-binding filter membrane type, such as PVDF, PES or CA.
- 10. 立即使用,或密封后在 2 至 8℃条件下避光保存。 Use the prepared medium immediately or seal and store at 2 to 8℃ away from light.

注意事项:

Precautions

CelliMax® MetaCHO™为无蛋白成分的 CD 基础培养基,如原培养基中含有蛋白成分(如胰岛素,IGF等),更换至 CelliMax® MetaCHO™培养基时,可考虑添加相应物质以缩短细胞适应时间。

CelliMax[®] MetaCHO[™] Medium is a protein-free CD basal medium. If the original medium with protein components (e.g. insulin and IGF) is replaced with CelliMax[®] MetaCHO[™] Medium, corresponding substances can be added to shorten the cell adaptation time.

质量标准*:

Quality Standards*

检测项目	标准	
Test Item	Specification	
	淡粉色或淡黄色粉末,含有少量	
外观	可见徼粒	
Appearance	Light pink or light yellow powder	
	with few visible particles	
水分	<5.0%	
Moisture	3.070	
渗透压	270-330mOsmol/kg	
Osmolality	270-330mOsmorkg	
细菌内毒素	<10EU/ml	
Endotoxin	~10E0/III	
	需氧菌总数<1000CFU/g	
微生物限度	Aerobe<1000CFU/g	
Bioburden	霉菌及酵母菌总数<100CFU/g	
	Mold & Yeast<100CFU/g	

^{*}实际情况以CoA 为准

订购信息*:

Ordering Information*

产品	订单参考号	形式
Product	Order Reference No.	Format
CelliMax [®]	OPP 050 101	
MetaCHO™培养基	CPDP050-10L	干粉
CelliMax®	CPDP050-100L	Powder
MetaCHO TM Medium		

^{*} 有关其他信息,请访问 www.cellupro.cn 或详询 sales@cellupro.cn

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^{*}Refer to CoA for actual results.

^{*}Please visit www.cellupro.cn for more information or contact sales@cellupro.cn.

^{*}除工艺变更外,其他变更将不另行通知

^{*} Except for process changes, other changes will not be notified.