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产品使用说明书 Product Instruction Manual

多宁/DuoNing

动物细胞高性能培养基 High-Performance Culture Medium for Animal-Cells

V130&131-01

【产品名称 Product name】Maxfeed™ 403A1、Maxfeed™ 403B1 培养基 Maxfeed™ 403B1 medium

【货号 Art. No.】

MP403A1-30g、MP403A1-100g、MP403A1-500g、MP403A1-1kg、MP403A1-5kg、MP403A1-100g-02、MP403A1-1kg-02、MP403A1-5kg-02、MP403A1-10kg-02、MP403A1-25kg-02

MP403B1-5g、MP403B1-10g、MP403B1-100g、MP403B1-500g、MP403B1-100g-02、MP403B1-1kg-02、MP403B1-5kg-02、MP403B1-10kg-02、MP403B1-25kg-02 粉末包装 Powder packaging

【产品说明 Product description】

Maxfeed™ 403A1 和 Maxfeed™ 403B1 培养基是无动物来源成分、无蛋白成分、化学成分限定的高效补料培养基，适用于中国仓鼠卵巢细胞（CHO）进行补料分批（fed-batch）培养。本产品不含有生长因子、次黄嘌呤、胸腺嘧啶和 L-谷氨酰胺。适合采用 GS 系统和 dhfr 筛选系统的 CHO-K1、CHO-S、DG44、CHOZN 等不同细胞株的培养。

Maxfeed™ 403A1 and Maxfeed™ 403B1 medium are no animal-derived components and no protein composition, chemical defined high-efficiency feed medium. They are suitable for fed-batch culture of Chinese hamster ovary cells (CHO). These products do not contain growth factors, hypoxanthine, thymine and L- glutamine, and are suitable for the culture of CHO-K1, CHO-S, DG44, CHOZN and other different cell lines using GS system and dhfr screening system.

Maxfeed™ 403A1 需和 Maxfeed™ 403B1 配合使用，同时补加。

Maxfeed™ 403A1 should be used together with Maxfeed™ 403 B1 and added simultaneously.


【使用指南】

使用时需结合细胞株的特性，采用合理的补料策略可以明显改善细胞的生长，提高抗体表达的产量。

When using, it is necessary to combine the characteristics of the cell line, and use a reasonable feeding strategy can significantly improve the cell growth and increase the production of antibody expression.

① Maxfeed™ 403A1: 不含有葡萄糖，配制过程中可根据实际工艺进行调整，推荐添加 75g/L 的葡萄糖。配制完成后液体 Maxfeed™ 403A1 的 pH 为中性。

① Maxfeed™ 403A1: Does not contain glucose, the preparation process can be adjusted according to the actual process, recommended to add 75g / L of glucose. The pH of liquid Maxfeed™ 403A1 after preparation was neutral.

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Maxfeed™ 403B1 培养基: 不含有葡萄糖, 配制完成后液体 Maxfeed™ 403B1 培养基的 pH 为碱性。

Maxfeed™ 403B1 Medium: does not contain glucose, the pH of liquid Maxfeed™ 403B1 medium is alkaline.

② 第一次补料建议在细胞指数生长期中后期, 通常在第 3 天细胞密度达至 $2.0\sim 3.0\times 10^6$ cells/mL 以上, 开始补料, 推荐的补料方案如下, 可根据使用的细胞株做相应的调整:

② For the first time, it is suggested to start feeding in the middle and late period of cell exponential growth, usually on the third day when the cell density reaches $2.0\sim 3.0\times 10^6$ cells/mL. The recommended feeding scheme is as follows, and can be adjusted according to the cell lines used:

补料时间 Feeding time	Maxfeed™ 403A1+ Maxfeed™ 403B1
Day 3	3%+0.3%
Day 5	3%+0.3%
Day 7	5%+0.5%
Day 9	5%+0.5%
Day 11	3%+0.3%

注意事项 matters need attention:

- 培养 GS 筛选系统工程细胞株时, 根据需要添加次黄嘌呤和胸腺嘧啶。
- When cultivating the engineering cell of GS screening system, hypoxanthine and thymine were added as needed.
- 培养 dhfr 筛选系统工程细胞株时, 根据需要添加 3~8mM L-谷氨酰胺。
- When cultivating dhfr screening system engineering cell lines, 3~8mM L- glutamine was added as needed.

【配制指南 Preparation guide】

适用于无锡多宁针磨工艺生产的 Maxfeed™ 403A1 (以 1L 为例)

Suitable for Maxfeed™ 403A1 produced by Wuxi Duoning pin mill process (taking 1L as an example)

1.准备配液体积 80%的超纯水(20~30 °C);

1.Measure 80% of the final volume ultrapure water (20~30 °C);

2.加入 15mL 6M NaOH;

2.Add 15mL 6M NaOH;

3.加入 Maxfeed™ 403A1 粉末 96.18g, 搅拌 30 min, 溶解完全, 此时 pH 在 6.0 左右;

3.Add 96.18g of Maxfeed™ 403A1 powder, stir for 30 min, and dissolve completely. At this time, the pH is about 6.0;

4.加入 75g/L 葡萄糖, 继续搅拌 10 min;

4. Add 75g/L glucose and continue stirring for 10min;

5. 调节 pH 至 6.70~6.90;

5. Adjust the pH to 6.70 ~ 6.90;

备注: Maxfeed™ 403A1 粉末初始溶解会有浑浊, 随着 pH 提高, 溶液逐渐澄清。

Remarks: Maxfeed™ 403A1 powder will be turbid when it is initially dissolved, and the solution will gradually clarify with the increase of pH.

6. 定容, 继续搅拌 5~10 min;

6. Constant volume, continue to stir for 5 ~ 10 min;

7. 用 0.22μm 过滤器除菌过滤;

7. Sterilizing and filtering with a 0.22μm filter.

适用于无锡多宁针磨工艺生产的 Maxfeed™ 403B1 培养基 (以 1L 为例)

Suitable for Maxfeed™ 403B1 medium produced by Wuxi Duoning pin mill process (taking 1L as an example)

1. 准备配液体积 70% 的超纯水 (20~30 °C);

1. Measure 70% of the final volume ultrapure water (20~30 °C);

2. 加入 180mL 6M NaOH;

2. Add 180mL 6M NaOH;

3. 加入 Maxfeed™ 403B1 培养基 82.7g, 搅拌 30 min, 溶解完全;

3. Add 82.7g of Maxfeed™ 403B1 medium, stir for 30min, and dissolve completely;

4. 定容, 搅拌 5~10 min;

4. Constant volume, and stir for 5 ~ 10 min;

5. 用 0.22μm 过滤器除菌过滤。

5. Sterilizing and filtering with a 0.22μm filter.

【储存、有效期或复验期 Storage condition, validity period or retest date】


上海生产基地, Maxfeed™ 403A1, 粉末包装: 2~8°C 避光储存, 有效期为 24 个月。

Shanghai production base, Maxfeed™ 403A1, powder packaging: store in dark at 2~8 °C, and the validity period is 24 months.

无锡生产基地, Maxfeed™ 403A1, 粉末包装: 2~8°C 避光储存, 复验期为 24 个月。

Wuxi production base, Maxfeed™ 403A1, powder packaging: store in dark at 2~8 °C, and the retest date is 24 months.

上海生产基地, Maxfeed™ 403B1 培养基, 粉末包装: 2~8°C 避光储存, 有效期为 24 个月。

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Shanghai production base, Maxfeed™ 403B1 medium, powder packaging: store in dark at 2~8 °C, and the validity period is 24 months.

无锡生产基地, Maxfeed™ 403B1 培养基, 粉末包装: 2~8°C避光储存, 复验期为 24 个月。

Wuxi production base, Maxfeed™ 403B1 medium, powder packaging: store in dark at 2~8 °C, and the retest date is 24 months.

【生产企业信息 Manufacturer information】

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