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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

V197&V198-00

【产品名称 Product name】DN feed 4 培养基 DN feed 4 medium 、DN feed B4 培养基 DN feed B4 medium

【货号 Main Art. No.】DN feed 4 培养基 DN feed 4 medium: FP021; DN feed B4 培养基 DN feed B4 medium: PF001 粉末包装 Powder packaging

【产品说明 Product description】

DN feed 4 培养基和 DN feed B4 培养基是无动物来源成分、无蛋白的化学成分限定的高效补料培养基，适用于采用中国仓鼠卵巢细胞（CHO）进行治疗性蛋白产品研发和生产过程中的补料分批（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。

DN feed 4 & DN feed B4 are chemical defined (CD) highly efficient feed medium with no animal derived components , no protein, which are suitable for use in Fed-batch cultures using Chinese hamster ovary cells (CHO) in the development and production of therapeutic protein products. This product does not contain growth factors, hypoxanthine, thymidine or L-glutamine. It is suitable for the culture of different cell lines such as CHO-K1, CHO-S, DG44, CHOZN using GS system and DHFR screening system.

DN feed 4 培养基和 DN feed B4 培养基需组合使用，同时补加。

DN feed 4 medium should be used together with DN feed B4 medium and added at the same time.

【使用指南 User guide】

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，客户可根据使用的细胞株自定义调整优化比例：

The first replenishment is recommended in the middle to late stage of cell index growth, usually on day 3 when the cell density reaches $2.0\sim 3.0\times 10^6$ cells/mL or more, and the recommended feeding scheme is as follows, and the optimized ratio can be customized according to the cell line used:

补料时间 Feeding time	DN feed 4+DN feed B4
Day 3	3%+0.3%
Day 5	3%+0.3%
Day 7	3%+0.3%
Day 9	3%+0.3%
Day 11	3%+0.3%

【配制指南 Preparation guide】

适用于 DN feed 4 培养基粉末包装（以 1L 为例）。

Suitable for DN feed 4 medium powder packaging (taking 1L as an example).

1. 准备配液体积 80%的纯化水（20~30℃）；
Prepare 80% volume purified water (20~30℃);
2. 加入 17.0mL 6M NaOH 溶液；
Add 17.0mL of 6M NaOH solution;
3. 缓慢加入 DN feed 4 培养基 158.61g，搅拌 40 min，溶解完全；
Slowly add 158.61g of DN feed 4 medium, stir for 40 min, and dissolve completely;
4. 调节 pH 至 6.60~6.90（非必需步骤）；
Adjust pH to 6.60~6.90 (Optional step);
5. 定容，继续搅拌 5~10 min；
Constant volume, continue stirring for 5 ~ 10 min;
6. 用 0.22μm 过滤器除菌过滤，2~8℃避光保存。
Sterilize and filter with a 0.22μm filter, and store at 2-8 °C in dark.

注：DN feed 4 液体培养基的渗透压在 1200~1500 mOsm/kg。

Note: The osmotic pressure of DN feed 4 liquid medium is between 1200 and 1500 mOsm/kg.

适用于 DN feed B4 培养基粉末包装（以 1L 为例）

Suitable for DN feed B4 medium powder packaging (taking 1L as the example)

1. 准备配液体积 80%的纯化水（20~30℃）；

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Prepare 80% volume purified water (20~30°C);

2. 加入 60mL 6M NaOH 溶液;

Add 60mL 6M NaOH solution;

3. 缓慢加入 DN feed B4 粉末 107.11g, 搅拌 30 min, 溶解完全;

Slowly add 107.11 g of DN feed B4 powder, stir for 30 min and dissolve completely;

4. 调节 pH 至 11.00~13.00 (非必需步骤);

Adjust pH to 11.00~13.00 (Optional step);

5. 定容, 继续搅拌 5~10 min;

Constant volume, continue stirring for 5 ~ 10 min;

6. 用 0.22μm 过滤器除菌过滤, 2~8°C 避光保存。

Sterilize and filter with a 0.22μm filter, and store at 2-8 °C in dark.

注: DN feed B4 液体培养基的渗透压在 1100~1500 mOsm/kg。

Note: The osmotic pressure of DN feed B4 liquid medium is between 1100 and 1500 mOsm/kg.

【储存和复验期 Storage and retest date】

DN feed 4 培养基粉末包装: 2~8°C 避光储存, 复验期为 24 个月。

DN feed 4 medium powder packaging: 2°C to 8°C, protect from light; retest date: 24 months.

DN feed B4 培养基粉末包装: 2~8°C 避光储存, 复验期为 24 个月。

DN feed B4 medium powder packaging: 2°C to 8°C, protect from light; retest date: 24 months.

【生产企业信息 Manufacturer information】

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