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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

V183&V184-00

【产品名称 Product name】DN feed 3 培养基& DN feed B3 培养基 DN feed 3 medium & DN feed B3 medium

【主货号 Main Art. No.】DN feed 3 培养基 DN feed 3 medium: FP015 DN feed B3 培养基 DN feed B3 medium: FP016 粉末包装 Powder packaging

### 【产品说明 Product description】

DN feed 3 和 DN feed B3 是无动物来源成分、无蛋白的化学成分限定 (CD) 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 3 & DN feed B3 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 3 和 DN feed B3 需组合使用, 同时补加。

DN feed 3 should be used together with DN feed B3 and added at the same time.

### 【使用指南 User guide】

DN feed 3 和 DN feed B3 是为提高 CHO 细胞生长和生产性能专门设计的一种高效补料配方, 其含有丰富的氨基酸和维生素等营养物质, 可以满足细胞高密度培养和产物高表达时的营养需求。结合细胞株特性, 采用合理的补料策略可以明显改善细胞的生长和抗体的表达产量。

DN feed 3 & DN feed 4 are highly efficient supplementation formula designed to improve the growth and production performance of CHO cells. They are rich in amino acids and vitamins to meet the nutritional requirements of high-density cell culture and high product expression. Combined with the cell line characteristics, a reasonable supplementation strategy can significantly improve the cell growth and antibody expression performance.

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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 feeding 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 3+DN feed B3
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 3 粉末包装（以 1L 为例）。

Suitable for DN feed 3 powder packaging (taking 1L as an example).

- 准备配液体积 80% 的超纯水（ $20\sim 30^{\circ}\text{C}$ ）；  
Prepare 80% volume ultrapure water ( $20\sim 30^{\circ}\text{C}$ );
- 加入 23.6mL 6M NaOH 溶液；  
Add 23.6mL of 6M NaOH solution;
- 缓慢加入 DN feed 3 培养基 182.59 g；搅拌 40 min，溶解完全；  
Slowly add DN feed 3 medium 182.59 g, stir for 40 min, and dissolve completely;
- 调节 pH 至 6.60~6.90；  
Adjusting the pH to 6.60~6.90;
- 定容，继续搅拌 5~10 min；（pH 范围：6.60-6.90，渗透压范围：1500-1800 mOsm/kg）  
Constant volume, continue stirring for 5 ~ 10 min; (pH range: 6.60-6.90, osmotic pressure range: 1500-1800 mOsm/kg)
- 用 0.22 $\mu\text{m}$  过滤器除菌过滤， $2\sim 8^{\circ}\text{C}$  避光保存。

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Sterilize and filter with 0.22 $\mu$ m filter, and store at 2-8 $^{\circ}$ C in the dark.

适用于 DN feed B3 粉末包装（以 1L 为例）

Suitable for DN feed B3 powder packaging (taking 1L as the example)

1. 准备配液体积 80% 的超纯水（20~30 $^{\circ}$ C）；

Prepare 80% volume ultrapure water (20~30 $^{\circ}$ C);

2. 加入 130mL 6M NaOH 溶液；

Add 130mL 6M NaOH solution;

3. 加入 DN feed B3 粉末 94.60g，搅拌 30 min，溶解完全；

Add 94.60 g of DN feed B3 powder, stir for 30 min and dissolve completely;

4. 定容，继续搅拌 5~10 min；（pH 范围：10.5-12.5，渗透压范围：1100-1500 mOsm/kg）

Constant volume, continue stirring for 5 ~ 10 min; (pH range: 10.5-12.5, osmotic pressure range: 1100-1500 mOsm/kg)

5. 用 0.22 $\mu$ m 过滤器除菌过滤，2-8 $^{\circ}$ C 避光保存。

Sterilize and filter with 0.22 $\mu$ m filter, and store at 2-8 $^{\circ}$ C in the dark.

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

无锡生产基地，DN feed 3 培养基粉末包装：2~8 $^{\circ}$ C 避光储存，复验期为 24 个月。

Wuxi production base, DN feed 3 medium powder packaging: 2 $^{\circ}$ C to 8 $^{\circ}$ C, protect from light; retest date: 24 months.

无锡生产基地，DN feed B3 培养基粉末包装：2~8 $^{\circ}$ C 避光储存，复验期为 24 个月。

Wuxi production base, DN feed B3 medium powder packaging: 2 $^{\circ}$ C to 8 $^{\circ}$ C, Protect from light; retest date: 24 months.

#### 【生产企业信息 Manufacturer information】

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