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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

V190-00

【产品名称 Product name】Transpro feed 1 培养基 Transpro feed 1 medium

【货号 Art. No.】FP017

粉末包装 Powder packaging

【产品说明 Product description】

Transpro feed 1 培养基是一种通用型瞬转补料，搭配 Transpro CD 01 培养基使用，该产品可同时用于 HEK293 细胞和 CHO 细胞的瞬时转染培养。Transpro feed 1 适合采用 HEK 293、Expi293F、293F、293E 等 HEK293 系列细胞和 expiCHOS、CHOS 等 CHO 系列细胞进行研发过程中抗体、重组蛋白和病毒的瞬时转染表达培养。该产品是完全化学成分限定培养基、无动物来源成分、无蛋白成分、无动物或植物来源蛋白水解物、无生长因子。

Transpro feed 1 medium is a universal transient transfection feed medium that can be used in conjunction with Transpro CD 01 medium. This product can be used for transient transfection culture of both HEK293 and CHO cells. Transpro feed 1 is suitable for transient transfection and expression culture of antibodies, recombinant proteins, and viruses during the research and development process using HEK293 series cells such as HEK 293, Expi293F, 293F, 293E, and CHO series cells such as ExpiCHOS and CHOS. This product is a fully chemically defined medium, without animal derived ingredients, protein derived ingredients, animal or plant derived protein hydrolysates, or growth factors.

【使用指南 User guide】

Transpro feed 1 本身含有合一定浓度的瞬转增强剂，适合单次补料，补料体积建议为初始培养体积 3-10%（推荐 5%）。本产品不建议多次补料，也不建议额外添加瞬转增强剂。


Transpro feed 1 contains a certain concentration of transient enhancer, which is suitable for single feeding. The recommended feeding volume is 3-10% of the initial cultivation volume (recommended 5%). This product is not recommended to be supplied for many times, and it is not necessary to add transient transfection enhancer.

细胞瞬转（以 HEK293 瞬转蛋白为例）

Cell transient transfection (using HEK293 transient protein as an example)

①转染前一天按照 2.0×10^6 cells/mL 密度接种，培养第二天细胞密度可至 4.0×10^6 cells/mL 左右；

The day before transfection need to seed cells at 2.0×10^6 cells/mL, the cell density can reach 4.0×10^6 cells/mL on the second day;

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②培养第二天细胞计数后，细胞活率 >95%，活细胞密度 $\geq 4.0 \times 10^6$ cells/mL，可直接使用；若细胞密度低于 4.0×10^6 cells/mL，可通过离心（800rpm，5 min）收集细胞，将细胞以 4.0×10^6 cells/mL 密度重悬于 Transpro CD 01 中；

After cell counting on the second day of culture, the cell viability was more than 95%, and the living cell density was $\geq 4.0 \times 10^6$ cells / mL, can be used directly; If the cell density is lower than 4.0×10^6 cells / mL, the cells can be collected by centrifugation (800 rpm, 5 min), and the cells can be resuspended at 4.0×10^6 cells/mL density in Transpro CD 01;

③按照优化后的瞬转工艺，制备 DNA 和 PEI 混合液；

The mixture of DNA and PEI was prepared according to the optimized transient process;

④将混合液加入到培养液中，进行培养；

Add the mixed solution to the medium for culture;

⑤培养 18h 后，建议补加补料培养基 Transpro feed 1（浓度建议为初始培养体积 3-5%），或者组合补加补料培养基 DN feed B2（浓度建议为初始培养体积 0.3-0.5%），可进一步提高活细胞密度和蛋白表达量。

After 18 hours of culture, it is recommended to supplement the supplemented medium Transpro feed 1 (the concentration is recommended to be 3-5% of the initial culture volume), or the combined supplemented medium DN feed B2 (the concentration is recommended to be 0.3-0.5% of the initial culture volume), which can further improve the density of living cells and protein production.

⑥细胞培养基过程中检测残糖，控制残糖浓度在 3-6g/L；

Detecting residual sugar in the process of cell culture medium, and controlling the concentration of residual sugar at 3-6g/L;

⑦培养至 7 天，或者活力低于 60%，结束培养。

Culture until 7 days, or the viability is less than 60%, and end the culture.

【配制指南 Preparation guide】

适用于粉末包装（以 1L 为例）。

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

1. 准备配液体积 80% 的超纯水（30~40°C）；

Prepare 80% volume ultrapure water (30~40°C);


2. 加入 19mL 6M NaOH 溶液；

Add 19mL of 6M NaOH solution;

3. 缓慢加入 Transpro feed 1 培养基粉末 200.879g，搅拌 30 min，溶解完全；

Slowly add 200.879 g of Transpro feed 1 medium powder, stir for 30 min and dissolve completely;

4. 调节 pH 至 6.80 ± 0.10 （非必须步骤）；

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Adjusting the pH to 6.80 ± 0.10 (optional step);

5. 定容, 搅拌 5~10 min, 检测渗透压 (渗透压范围为 2000~2400 mOsm/kg);

Constant volume, stirring for 5 ~ 10 min, and detecting osmotic pressure (osmotic pressure range is 2000~2400 mOsm/kg);

6. 用 0.22 μ m 过滤器除菌过滤;

Sterilization and filtration by 0.22 μ m filter.

【储存和复验期 Storage and retest date】

无锡生产基地, Transpro feed 1 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, Transpro feed 1 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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