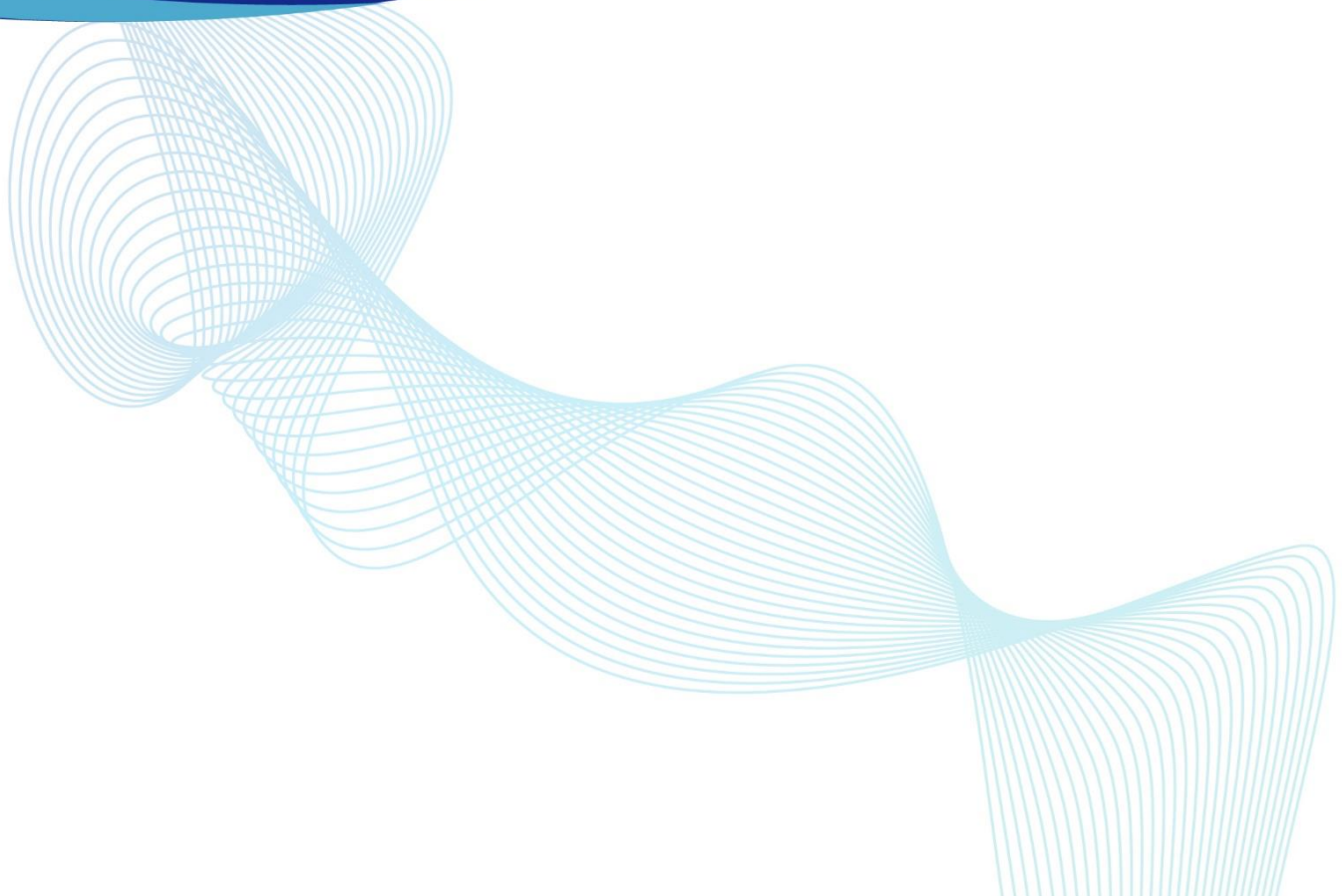




# **DN feed 4 & DN feed B4**

**High-Performance Culture Medium for Animal-Cells**

**Product Instruction Manual**



## DUONING

### High-Performance Culture Medium for Animal Cells

#### Product Name: DN feed 4 Medium & DN feed B4 Medium

#### Main Product No.: DN feed 4 Medium: FP021; DN feed B4 Medium: PF001; Powder Packaging

#### Product Description

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

#### User Guide

The first replenishment is recommended in the middle to late stage of cell exponential growth, usually on day 3 when the cell density reaches  $2.0-3.0 \times 10^6$  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:

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%

#### Preparation Guide

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

1. Prepare 80% volume purified water (20~30°C);
2. Add 17.0 mL of 6 M NaOH solution;
3. Slowly add 158.61 g of DN feed 4 medium, stir for 40 min, and dissolve completely;
4. Adjust pH to 6.60-6.90 (Optional step);
5. Fix volume, continue stirring for 5~10 min;
6. Sterilize with a 0.22 µm filter, and store at 2-8 °C in dark.

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

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

1. Prepare 80% volume purified water (20-30°C);
2. Add 60 mL 6 M NaOH solution;
3. Slowly add 107.11 g of DN feed B4 powder, stir for 30 min and dissolve completely;
4. Adjust pH to 11.00-13.00 (Optional step);

5. Fix volume, continue stirring for 5~ 10 min;
6. Sterilize with a 0.22  $\mu\text{m}$  filter, and store at 2-8 °C in dark.

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

### Storage Condition and Retest Date

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

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

### Manufacturer Information

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