

CHO Cell Transient Transfection Culture Medium (Chemical Transfection)

Version 2.4

简介

The basal medium (Trans CHO) and feed supplements (Enhance Trans S1 and Enhance Trans S2) are all chemically defined media, designed to provide balanced nutrition for the growth of CHO cells, supporting high-density transient transfection and stable expression in CHO cells. The Trans CHO medium includes glutamine.

Product	Catalog No.	Form	Package Size
Trans CHO	88044-1430	Dry Powder	2 L, 10 L, 50 L, Customized
	88044-23034	Liquid	500 mL, 1000 mL
Enhance Trans S1	99158-1431	Dry Powder	2 L, 10 L, 50 L, Customized
	99158-23035	Liquid	500 mL, 1000 mL
Enhance Trans S2	99160-1432	Dry Powder	2 L, 10 L, 50 L, Customized
	99160-23036	Liquid	500 mL, 1000 mL

Intended Use

For research and further manufacturing use only.

Storage and Stability

It should be stored in a dark environment at 2-8°C. The dry powder medium has a shelf life of 24 months, while the liquid medium is valid for 12 months. Addition of other supplements may affect storage conditions and expiration dates. If precipitation or turbidity occurs, discontinue use. If the liquid medium has been stored for more than 3 months, 3 mM glutamine should be added before its next use.

Media adaptation

For some cell lines, medium adaptation is required. It is considered complete when cell viability is $\geq 95\%$ and the population doubling time is < 24 hours.

Transient expression of protein

Basal medium: Trans CHO; Feed supplement: 3% Enhance Trans S1 + 0.3% Enhance Trans S2.

Process	Structure Suggestion
Transfection process using chemical reagents such as PEI (Polyethylenimine)	Adjusting cell VCD prior to transfection: 4.5×10^6 cells/mL; DNA: 1.5 mg/L; PEI : DNA = 5
Feeding strategy for transient protein expression	Following plasmid transient transfection, at 24 hours, 72 hours, 120 hours, and 168 hours, supplement the culture with 3% Enhance Trans S1 and 0.3% Enhance Trans S2. Maintain glucose levels at 4-8 g/L during this period.
Cultivation stage	Initial culture temperature is set at 36.5°C without subsequent temperature reduction. The pH should be maintained at 7.1 ± 0.2 , and dissolved oxygen (DO) level at 40%. For incubation in a shaker, it is recommended to use a rotation speed of 120 rpm with an amplitude of 50 mm, under a 5-8% CO ₂ atmosphere.