

# Tuner-Sia

Product Name: Tuner-Sia

## User Manual

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## Description

Tuner-Sia is a glycosylation adjust with clear chemical composition, which is independently developed, researched and produced by Shanghai BioEngine Sci-Tech Co., Ltd. Tuner-Sia is designed to increase the sialylation level of product protein in various cell cultures, such as Chinese Hamster Ovary (CHO) cells.

## Application

This product is intended for research or further manufacturing in the bio-manufacturing industry, but not for human or therapeutic use.

## Composition

The IP rights of Tuner-Sia formulation are owned by Shanghai BioEngine Sci-Tech Co., Ltd.

This medium does not contain:

- Cytokines and antibiotics.
- Raw materials from animal sources.

## Storage

- Store medium at 2-8°C, away from light.
- Once opened, the powder medium should be stored protected from moisture in a tightly sealed container.

- Do not use it after the expiration date or being damped.

## Reconstitution

### Reconstitution by constant volume

- 1) Weigh 70% water of the final volume into the preparation container using pure water, ultrapure water, or water for injection at 20-30°C. Mix thoroughly without creating air bubbles.
- 2) Accurately weigh the corresponding mass of Tuner-Sia at a concentration of 200 g/L and add it into the preparation container of (1). Stir well for 10 minutes.
- 3) Quantify with preparation water to reach 100% of the volume. Stir for 10 minutes.
- 4) Pass the Tuner-Sia solution through a pore size of 0.22 or 0.2 µm sterile filter membrane, such as PES, using a pulse pump or compressed air (3-15 psi).
- 5) Use the prepared liquid immediately or store it in glass bottles, PET storage bottles, or disposable storage bags with an oxygen barrier membrane. The reconstituted medium additive is stable for 1 week at 2-8°C.

## General culture recommendations

Add Tuner-Sia into the culture system one time on D5 or D6 of a 14-day culture with the volume ratio of 1:100 (v/v, Tuner-Sia volume/culture volume).

The volume ratio could be further optimized according to the target sialylation level.

Tuner-Sia can be used together with other Tuners to regulate protein glycosylation.

## Related Product

Product Name	Type	Cat. No.	Form	Size	Packaging	Note
Tuner-Sia	Additive	EXP0119101	Powder	100 g	Bag	Increase the sialylation level of product protein



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