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by Thermo Fisher Scientific

GlycanTune™ A+ Total Feed

Description

GlycanTune™ A+ Total Feed is an AGT™ dry-format, single-part product for use in fed batch culture of multiple cell lines. When used, this total feeding supplement can shift glycan profiles from heavily G0F to mostly G1F and G2F glycans. GlycanTune™ A+ Total Feed is an animal-origin free, chemically defined formulation that contains no proteins, hydrolysates, or components of unknown composition. The product provides an easy-to-reconstitute, pH-neutral solution that can be concentrated from the suggested 73.0 g/L (1X) up to 219.0 g/L (3X). As a result, key nutrients can be delivered in smaller volumes.

Product	Catalog No.	Amount	Storage	Shelf life
GlycanTune™ A+ Total Feed (all in AGT™ dry-format)	A29719-04	1 × 1 L	2°C to 8°C, Store dark and dry.	12 months
	A29719-05	1 × 10 L		
	A29719-01	1 × 100 L		

Product use

Caution: For use as a raw material in further manufacturing applications.

Safety information

Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Reconstitute GlycanTune™ A+ Total Feed

1. Measure 80% of the final volume of deionized or distilled water at room temperature (15°C to 30°C).
2. Add GlycanTune™ A+ Total Feed (73.0 g/L) to water. Mix until completely dissolved and for a minimum of 20 minutes.
   Note: Solution will be cloudy and become clear over time.
3. Using a calibrated vessel, dilute to final volume with deionized or distilled water. Mix for an additional 10 minutes.
4. Measure pH and osmolality. Confirm final pH of 6.5–7.2. Final osmolality should be 490–520 mOsm/kg.
5. Sterilize immediately by membrane filtration (positive pressure recommended).
   Note: Once product is filtered, use immediately or store at 2°C to 8°C for up to 30 days. Protect from light.

Reconstitution options

Depending on culture needs, GlycanTune™ A+ Total Feed can be concentrated following these recommendations:

Concentration	Dissolution time
1X (73.0 g/L)	20 min
3X (219.0 g/L)	75 min

Use

To maximize protein glycosylation, GlycanTune™ A+ Total Feed can be added as a complete stand-alone feed every 1–3 days or as a continuous feed. To target glycosylation profiles, initiate feeding with EfficientFeed™ A+ AGT™ Supplement, and then transition to feeding with GlycanTune™ A+ Total Feed (both feeds can be added every 1–3 days or as continuous feeds). The timing of the transition to GlycanTune™ A+ will determine the glycosylation profile. We recommend that you test at least three different transition time points (early, middle and late culture) to assist in choosing a transition point that will result in the desired glycan profile. Total feed volume can range from 10–45% (1X) to 3–15% (3X) of the starting culture volume depending on the cell line and process. For best results, we recommend that you initiate feeding only after reaching mid to late exponential phase.

Feeding examples

Example feeding strategy to maximize glycosylation using GlycanTune™ A+ Total Feed for either 1X or 3X concentration (Feed volume in percent of starting culture volume):

GlycanTune™ A+ Total Feed (Concentration)	Culture days	
	0–2	3–14
1X	—	3.8%
3X	—	1.3%

Example feeding strategy to target a glycosylation profile using EfficientFeed™ A+ AGT™ Supplement, and then transitioning to GlycanTune™ A+ Total Feed both at 3X concentration (Feed volume in percent of starting culture volume):

Concentration	Culture days		
	0–2	3–7	8–14
3X EfficientFeed™ A+ AGT™ Supplement	—	1.3%	—
3X GlycanTune™ A+ Total Feed	—	—	1.3%

Related products

Product	Catalog No.
CD OptiCHO™ Medium, (1X) liquid	12681
CD CHO Medium, (1X) liquid	10743
CD FortiCHO™ Medium, (1X) liquid	A11483
Dynamis™ Medium AGT™ dry format	A26175
EfficientFeed™ A+ AGT™ Supplement	A25023
EfficientFeed™ B+ AGT™ Supplement	A25030
EfficientFeed™ C+ AGT™ Supplement	A25031
Trypan Blue Solution	15250
Water, Distilled	15230

Explanation of symbols and warnings

The symbols present on the product label are explained below:

				
Caution, consult accompanying documents	Temperature Limitation	Keep away from light	Use By:	Consult instructions for use
				
Batch Code	Catalog number	Manufacturer	Sterilized using aseptic processing techniques	Read Safety Data Sheet

Limited product warranty

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