

Cell culture media For better lives

CMO Service

Shortcut to
Official Channel



What we can offer

Ajinomoto CELLiST Korea offers contract manufacturing services for cell culture media using customers' formulations. Leveraging Ajinomoto's expertise in nutritional knowledge and advanced control technology over physical properties, we can ensure the delivery of superior quality and cost-competitive solutions.

- Flexible small to large scale media or supplement production
- Provide prototype media or supplement usually in 10 business days after order in a non-GMP environment
- Provide media or supplement usually in 6-12 weeks after order in a GMP compliant environment
- Offer competitive price

Overall Process



| Service Features / Reference

⊞ Our strengths

- Expertise in sourcing raw materials
- Rapid production response in emergency situations
- Swift shipping response leveraging geographical advantage (within Asia)
- Creating proprietary manufacturing processes and testing methodologies for our media
- Adaptable approach to diverse customer needs through inter-departmental collaboration (such as tailgate samples, trace metal measurements, etc.)

- Continuous supply of media products for blockbuster pipelines with the lowest prices
- Meeting urgent CMO (Contract Manufacturing Organization) requests (Customer Inquiry - Raw Material Preparation - Pilot Production - Evaluation - Manufacturing -Delivery: 3 months)
- CMO request response for Classical Media (under 2 months)
- Lowered the customer's production expenses by delivering customiozed pre-mixture blends of

Supported Items

We specialize in tailored manufacturing services for a wide range of powdered formulations, catering to individual customer requirements.

- Powder Media / Supplement in lots up to 10kg, packaged in aluminum pouch or plastic pail by weight

Container(L)	5L	10L	20L	80L	250L	1,000L	2,000L
non-GMP	~2kg	~5kg	~10kg				
сСМР			~10kg	~50kg	~100kg	~450kg	~1,000kg

- Annual maximum production capacity: 200 ton (1 ton x 200 batches)
- Various kinds of formulas includes:
 - Customer-developed formulas
 - Classical formulas with or without modifications (e.g. DMEM with low NaCl)
- Media are packaged in aluminum pouch or plastic pail by weight

	Aluminum pouch	6L Plastic drum	20L Plastic drum	60L Plastic drum
Amount(kg)	~0.050kg	~3kg	~10kg	~20kg
Amount(L)	~1L	~50L	~500L	~1,000L

Quality Control Testing

- Product quality are evaluated by the following tests
- Appearance (powder, after dissolving)
- Loss on drying
- pH (after dissolving)
- Osmotic pressure (after dissolving)
- Cell culture test
- Endotoxin test
- Microbial limit testing (TAMC / TYMC)
- Mycoplasma
- Result of Analysis is available for prototype.
- Testing includes Appearance, Solubility, pH and Osmolality.

TAMC/TYMC, Endotoxin, Mycoplasma and Cell culture are optional, requiring more lead-time to the delivery.



Manufacturing Process

Production at our technical laboratory and GMP-compliant factory is well-established, allowing efficient & speedy manufacturing with high quality for ranging from small scale to industrial supply.

All processes are controlled by MES (Manufacturing Execution System)

1. Weighing

In accordance with MES direction, raw materials are precisely measured, spanning from milligrams to kilograms.



2. Pulverization

Prior to blending, each material undergoes pulverization to ensure the uniformity of the product mixture.



3. Mixing

A consistent blend of individual raw materials is achieved through multi-step mixing utilizing a container mixer.



4. Packaging

Packaging materials undergo processing and cleaning before being brought into a clean area. The end products are then filled and stored in cold storage until they are ready for shipment.



milling

Item	Model Manufacturer	Spec/ Capacity
Pin Mill	UPZ100 Hosokawa Micron	~50kg /hr
Pin Mill	Pin Mill UPZ160 Hosokawa Micron	
Pin Mi ll	UPZ250 Hosokawa Micron	~750kg /hr

mixing

Item	Model Manufacturer	Spec/ Capacity
Container	PM100	~50kg
Mixer	Hiroshima M&M	/Lot
Container	PM400	~100kg
Mixer	Hiroshima M&M	/Lot
Container	PM1000	~500kg
Mixer	Hiroshima M&M	/Lot
Container	PM2000	~1,100kg
Mixer	Hiroshima M&M	/Lot

packaging

Item	Model Manufacturer	Spec/ Capacity	
Powder filling machine (Large)	TM-F31M7-L Toyo Machinery	~20kg /package (±5.0g)	
Powder filling machine (Small)	-	~30g /package (±0.002g)	







Quality System

Benefit from Ajinomoto's extensive experience in manufacturing pharmaceutical-grade amino acids over the years.

Quality Control Quality Assurance

ASQUA

Ajinomoto Group Quality Assurance System -

- ☑ Validated and controlled manufacturing process
- ☑ Quality review of batch records
- ☑ Qualified and Validated analytical methods
- ☑ Raw material characterization and management
- ☑ Certificate of Analysis, Certificate of Origin and MSDS available

ASQUA

Rules and requirements of the Ajinomoto Group



Manufacturing management standard HACCP GMPs

The international quality management system standard ISO 9001

GMPs / ICH Q7 / 21CFR Part 820

ISO9001



Who is Ajinomoto CELLiST Korea



Major History

2012• Established as a joint venture between Alinomoto and Genexine

2014

Started commercial production

2017

CHO Cell Culture Media brand launched

2019

Osong Customer Service

2022 • Changed the na

- Changed the name from Osong Customer Service to CELLIST Solution Center (CELLIST | Solution Center)
- China CSC scheduled to open
- Preparing to open CSC in India

What Ajinomoto CELLiST Korea can do

Creating new value for the customer through cutting-edge bioscience and fine chemical technologies

