

Media by Design Services

Cell culture

Custom media development services

Optimized media. Maximized performance. Long-term success.

Optimize your unique medium and process for increased titers, quality, and manufacturability by collaborating with Gibco™ Media by Design™ Services.

Our solutions are customized to your goals and preferences, including completing projects at your facility or ours depending on your specific requirements. Additionally, all media is developed with manufacturing in mind—helping ensure formulations are scalable, able to be manufactured in multiple formats, and aligned with your cost expectations.

We offer a flexible range of media development services, with both a traditional and a multi-omics workflow option.

Traditional workflow option

Our traditional development workflow uses spent media analyses of key components, including selected water-soluble vitamins and amino acids. These insights are used in an iterative design of experiments (DOE) process to develop optimized formulations.

Multi-omics workflow option

Combining proteomics and metabolomics, our multi-omics workflow employs cellular component analyses of thousands of proteins and metabolites to fully understand the nutritional requirements of your cell line.

This results in a final formulation that can help you:

- Increase titers
- Enhance protein quality
- Improve productivity and cost efficiencies

Flexible collaboration choices

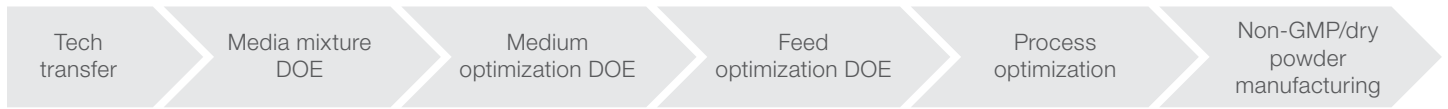
Our media development service provides you the option to work with our experienced bioprocessing professionals as an extension of your own team in two different ways.

Full-service project: media formulation, cell culture experiments, and analyses are performed at one of our sites.

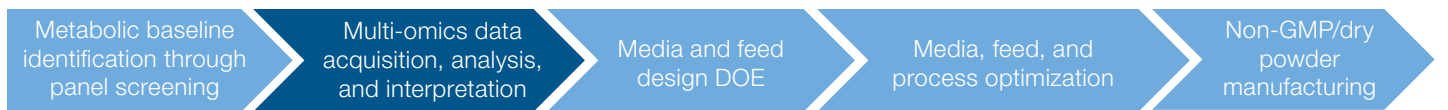
Consultation service project: cell culture experiments are performed at your site while we support with experiment design, media formulation, and analytics.

Traditional and multi-omics workflow details

Traditional workflow: multiple full-factorial DOEs
<50 molecules: amino acids and ~10 metabolites



Multi-omics workflow: metabolic pathway analysis
8,000 molecules: 1,000 metabolites and 7,000 proteins



Experience you can rely on

When you collaborate with us, you can benefit from more than 60 years of cell culture experience, providing trusted solutions and services to elevate biopharmaceutical manufacturing workflows. This is supported by our proven track record of completing over 150 media development projects in the last 15 years alone.

Providing support from development to commercial manufacturing

Our global team of field application and R&D scientists has the knowledge and expertise to support you every step of the way and help you meet your project goals.

Industry-leading technology and expertise

Our multi-omics workflow relies on best-in-class technology and expertise to support our data intelligence. This includes:

- High-resolution UPLC-MS instrumentation
- Predictive analytics
- Bioinformatics

Multimedia resources



Listen to our podcast:
Multi-Omics in Media Development



Watch our on-demand webinar:
Multi-Omics in Cell Culture Media Design



Read a case study:
Custom traditional and multi-omics media development enhances antibody production in CHO cells
Achieving titer increase up to 4-fold while maintaining product quality

Find out more and request a consultation today at:
thermofisher.com/mediadevelopment

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