

Gibco BioProduction Services Spent Media Analysis

Helping you get the most from your cell culture

Quantitative media characterization to identify improvements to media formulations.

Put our media analytics expertise to work for you. To help you increase yield, simplify feeding regimes and optimize production economics, we analyze the major nutritional components in your spent media samples. As experts in media optimization, process development and analytical testing, Gibco™ BioProduction Services process scientists generate data on validated instrumentation using optimized protocols for cell culture media.

- **10 business-day turnaround** for most routine services*
- **Samples tested in multiple facilities** located in the United States, Europe and China
- **Access to expert consultation** for your results and further media development

For more information go to thermofisher.com/gibcobpdservices



| Components in amino acids analysis | | | |
|---|------------------|-----------------|--------------|
| Ammonia | Ethanolamine HCl | L-Isoleucine | L-Serine |
| L-Alanine | L-Glutamic Acid | L-Leucine | L-Threonine |
| L-Arginine | L-Glutamine | L-Lysine HCl | L-Tryptophan |
| L-Asparagine | Glycine | L-Methionine | L-Tyrosine |
| L-Aspartic Acid | L-Histidine | L-Phenylalanine | L-Valine |
| L-Cystine/L-Cysteine | L-Hydroxyproline | L-Proline | |
| Components in water-soluble vitamins analysis | | | |
| Cyanocobalamin (B-12) | Niacinamide | Phenol Red | L-Tryptophan |
| Folic Acid | Thiamine HCl | Riboflavin | |

Table 1. Comprehensive list of components included in amino acids and water-soluble vitamins analysis. Analysis of other components is available upon request.

| Analysis | Technique | Turnaround* |
|---|--------------|-------------|
| Amino acids | UHPLC | 10 days |
| Water-soluble vitamins | HPLC/UHPLC | 10 days |
| Trace elements | ICP/ICP-MS | >10 days |
| Insulin | HPLC/UHPLC | >10 days |
| Pluronic For fresh media or stability studies | HPLC/UHPLC | >10 days |
| o-Phosphate | Colorimetric | >10 days |
| Polyamines Includes Putrescine and Spermine for fresh media or stability studies | UHPLC | >10 days |
| Glucose/Lactate | Bioanalyzer | 10 days |
| Cholesterol | GC | >10 days |

Table 2. State-of-the-art analytical techniques and 10 business-day turnaround for most routine services. Additional analysis are available upon request.

*Turnaround times are variable and based on project scope.