

Fast Trak cell culture analytical services

Let us focus on getting results



Understanding your cell culture process enables productivity improvements and accelerated timelines. The analytical testing services team within Cytiva uses industry accepted high-resolution methods for quantitative analyses of your samples coupled with decades of expertise in HyClone™ cell culture media and bioproduction. This approach improves performance for consistent high-quality results.

Analytical services enable support and troubleshooting of development projects, including:

- Understanding the nutritional requirements of a cell line
- Characterizing cell culture system parameters for process optimization
- Extending cell viability and increasing productivity
- Raw material identity and batch comparisons with elemental analysis
- Investigative analyses of cell culture performance

All analytical methods are harmonized with current ICH standards. Sample analysis is performed by dedicated process development scientists experienced in cell culture medium applications and current analytical techniques.

Helping you make bioprocessing easier.

Assays

Spent medium analysis

Assay	Analyte/application	Instrumentation†	Product code
Amino acids	ASP, GLU, SER, ASN, GLY, GLN, HIS, THR, ARG, ALA, PRO, TYR, CYS*, VAL, MET, ILE, LEU, LYS, PHE, TYR	Ultra high performance liquid chromatography and fluorescence detection	CT30001.01
Basic metabolites	Glutamine, glutamate, glucose, lactate, ammonium, sodium, potassium, calcium	Bioprocess analyzer	CT30004.01
Trace elements, metals, and major ions	Aluminum, arsenic, barium, beryllium, calcium, cadmium, cobalt, chromium, copper, iron, potassium, magnesium, manganese, molybdenum, sodium, nickel, phosphorus, lead, selenium, tin, strontium, thallium, vanadium, zinc, gallium, cesium, and rubidium	Inductively coupled plasma mass spectrometry	CT30002.01
Vitamins	Thiamine (B1, thiamin), riboflavin (B2), nicotinamide (B3), pyridoxine (B6), pantothenic acid (B5), folic acid (B9), biotin (B7), and cyanocobalamin (B12)	Liquid chromatography–mass spectrometry	CT30006.01
Lipids	Cholesterol, linoleic acid, oleic acid, palmitic acid, stearic acid, and myristic acid	Gas chromatography–mass spectrometry	CT30003.01
Proteins	Total protein panel	Colorimetric assay test	CT30005.01
pH	Cell culture medium applications	pH meter	CT30007.01
Osmolality	Cell culture medium applications	Freezing point method	CT30008.01
Conductivity	Cell culture medium applications	Conductivity meter	CT30009.01

* Reported as present or not present.

† Limit of detection/qualification can change depending on the samples and instrument sensitivity.

Our team of field and in-house specialists are experienced in creating solutions by combining the latest in analytical technologies with expert knowledge.

Contact your local sales representative for more information.

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