



Stem cell research

Better understand your cells with our stem cell characterization services

With access to a complete portfolio of characterization tools and cutting-edge instruments, the CellModel™ Services team at Thermo Fisher Scientific can perform numerous stem cell characterization experiments using cell lines that you provide or ones that we customize for you.

Learn more about the services we offer:

KaryoStat+ Karyotyping Service is a fast and cost-effective alternative to typical G-banded karyotyping, offering whole-genome coverage for accurate detection of chromosomal aberrations.

KaryoStat+ and Cell Identification Service is the KaryoStat+ Karyotyping Service above, with additional cell identification analysis that leverages DNA fingerprint-based matching of 150,000 SNPs across the whole genome.

Oncomine Service is a high-resolution cancer hotspot detection service that leverages the Ion Torrent™ Oncomine™ Comprehensive Assay, offering higher detection sensitivity from next-generation sequencing platforms.

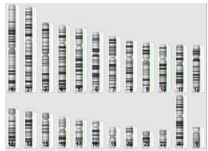
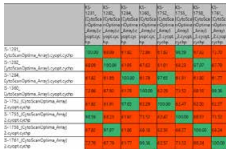

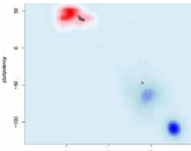


PluriTest Characterization Service analyzes the transcriptome of samples against an extensive and well-characterized reference set of previously characterized cells and tissue for a high-resolution global assessment of pluripotency.

Scorecard Panel Characterization provides the assessment of pluripotency and differentiation potential for both embryonic and induced pluripotent stem cell lines using the Applied Biosystems™ TaqMan™ hPSC Scorecard Panel.

Mycoplasma Detection Service leverages the Applied Biosystems™ MycoSEQ™ Mycoplasma qPCR Detection Kit to detect more than 90 mycoplasma species, offering the sensitivity to detect less than 10 copies per reaction.

Contact your Thermo Fisher Scientific representative for more information.

A wide range of characterization services

	Karyotyping tests		Pluripotency tests		Contamination test	DNA sequencing
Service	KaryoStat+ service An effective alternative to G-banding	KaryoStat+ and cell ID service DNA fingerprint–based matching of human cell lines	TaqMan hPSC Scorecard service Differentiation potential and pluripotency evaluation	PluriTest service High-resolution, global assessment of pluripotency	Mycoplasma service Mycoplasma detection simply, reliably, and rapidly	Oncomine service High-resolution cancer hotspot detection
Description	 <p>An alternative to the G-band karyotyping of stem cells, we leverage the array-based Applied Biosystems™ KaryoStat™ assay to offer cost-effective and accurate detection of chromosomal abnormalities</p>	 <p>Cell identification enables DNA fingerprint–based matching of human cell lines through analysis and correlation of 150,000 SNPs across the whole genome</p>	 <p>This service leverages the TaqMan hPSC Scorecard Panel of 93 genes to confirm pluripotency and differentiation potential</p>	 <p>Using the Applied Biosystems™ PrimeView™ Human Gene Expression Array in combination with the PluriTest bioinformatics tool, we analyze over 36,000 transcripts and variants for a global assessment of pluripotency</p>	 <p>This service leverages the MycoSEQ Mycoplasma qPCR Detection Kit to detect more than 90 mycoplasma species</p>	 <p>This service enables the monitoring of genomic variations across 161 genes associated with NIH-recognized cancer hotspots in your iPSC culture</p>
Submitted sample	Cryopreserved cell pellet					
Deliverable	Detailed project report with test results and available supplemental data					
Timeline	4 weeks	3 weeks	3 weeks	3 weeks	2 weeks	4 weeks

Learn more at thermofisher.com/characterizationservices