

Analytical Testing Capabilities

- Automated and high-throughput Cell Count
- Cell viability
- Apoptosis and cell death
- Organelle changes
 - o Plasma membrane integrity
 - o Mitochondrial membrane potential
 - Lysosomal degradation
 - o ROS production
- Transduction and transfection verification
 - o Quantification and expression of fluorescent protein
- Vector quantitation and characterization
- Cell proliferation
- Cytotoxicity
- Imaging and counting colonies in hematopoietic colony-forming unit
- Cell sorting (FACS and magnetic)
- PCR
- Protein detection and quantification
 - o Cytokine and other secreted protein
 - o Phosphoprotein expression
 - Transcription and translation factor changes
- Product identity and characteristics
 - Phenotype
 - o Lineage
 - Differentiation
 - Inhibition
 - Activation
 - o Exhaustion/Senescence
- Specimen and tissue processing
 - o Whole Blood
 - o PBMC isolation
 - Apheresis
 - Human/animal tissue
 - Cell lines
- Single cell omics
 - o Gene expression
 - Surface protein expression
 - o Antigen specificity
- Single cell functional characterization
 - Cytokines, chemokines and growth factors
 - o Protein to Protein interaction and resistance pathway