

Immunotoxicity Testing

ImmunoGlo™-Tox HT: A T- and B-Lymphocyte In Vitro Immunotoxicity Screening and Testing Platform

- Detect potential lymphopenia.
- For lymphocyte cytotoxicity, regulatory T-cells (Tregs), cytotoxic T-cells (CTL), ADCC, ADC, mixed lymphocyte reaction (MLR) and more.
- Specialized assays available for T-cells and B-cells.
- Compare and rank potential immunotoxicity according to compound type, immune cell type and species (where available).
- Assess the effects of drug combinations and [interactions](#).
- Determine the therapeutic index.
- Determine [immunonanotoxicity](#).
- Basic immunology contract research service studies.
- Combine with ImmunoGlo™ Real Time to determine the kinetics of toxicity.
- Multiplex with other assay readouts (e.g. immunophenotyping) to save time, samples and costs and help determine [mechanism of action](#) (MOA).
- Incorporates proven ATP bioluminescence readout.
- Fully standardized and validated according to FDA Bioanalytical Method Validation Guidelines.
- Includes measurement assurance parameters to ensure trustworthy results.
- High-throughput screening for ADME/Tox early stage drug development or later stage optimization.
- Studies usually completed in less than 1 week. Draft Report after 5-7 business days.
- Target human tissues include bone marrow, cord blood, peripheral blood and purified cells.
- Target animal tissues include bone marrow, peripheral blood spleen, thymus.
- Suspension Expansion Culture™ (SEC™) Reagent Technology available to expand T- or B-cells for further studies.
- All contract service studies include graphical results, raw data and estimated IC values.
- Combine with HALO®-Tox HT “Global” 7-population assays to obtain a “global” view of lymphotoxicity and hematotoxicity.
- Both 96- and 384-well plate formats depending on study size and complexity. All studies performed using liquid handlers to ensure the highest accuracy and precision.
- All studies performed using a minimum of 6 doses for IC value estimates and 8 replicates for the highest statistical relevance.
- Combine with other HemoGenix® assay toxicity platforms using the same ATP bioluminescence readout that are incorporated into the ComparaTOX™ Platform.

