Présentation

ImmunoSpot® Analyzers plate readers designed for scanning and evaluating a wide range of microtiter plate-based bioassays— and in particular, ELISPOT assays.

The ELISPOT assay is a sensitive technique for the detection of immune cells which secrete specific signature proteins such as antibodies or cytokines.

Why ELISPOT?

• Accurate ex vivo frequency measurements down to the 1/10^6.
• High-throughput T-cell analysis becomes feasible.
• Fewer cells are required compared to other cellular assays.
• Determinants targeted by CD4 or CD8 cells can be defined. ELISPOT assays are ideal for screening peptide libraries for determinant mapping.
• Pre- and post-treatment samples can be tested side-by-side with highly reproducible results.
Plate Imaging

**Plaque and Colony Counting**

Automated colony counting with the BioSpot® line of instrumentation and software.

The CTL BioSpot® platform automated image capture and analysis systems for a broad range of colony counting applications. These include microbial load and bioburden testing, clonogenic assays, stem cell assays, Ames test, mouse lymphoma assays, viral plaque assays, and more.

**BioSpot® Applications**

- Microbial Assays
- Mammalian Colony Assays
- Viral Plaque Assays
- Genotoxic Assays

**Viral Plaque Assays: principle**

1. Confluent monolayer of cells
2. Add virus serially diluted, allow to adsorb and remove
3. Cover monolayer with agar
4. Incubation period
5. As the virus is released from the infected cells, the agar prevents their diffusion and spread to adjacent cells
6. Plaques (clear areas) develop in the cell monolayer as cells are damaged or killed
7. Stain cells with vital dye (crystal violet or neutral red) to enhance visualization of plaques, count plaques