How the T-SPOT. TB Test Works

The T-SPOT. TB test is the new cellular blood test that detects the immune response of T cells found in peripheral blood mononuclear cells (PBMCs) that have been sensitized to M. tuberculosis antigens.

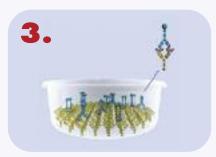
The T-SPOT.TB Test

- Removes background interferon gamma to maximize sensitivity
- Utilizes a standard number of PBMCs to correct for patient's immune status
- Uses TB specific antigens not present in BCG and most non-tuberculosis mycobacteria to prevent cross-reactivity

Performing the T-SPOT.TB test involves the following steps using standard lab equipment:



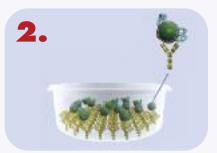
Collect the blood sample. At the lab, PBMCs are separated from whole blood, washed, counted and inoculated into 4 separate microtiter wells.



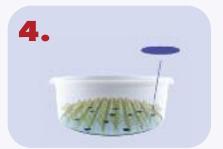
IFN-y [•••] is released from activated T cells and captured. Wash wells, add secondary conjugated antibody [Å,]. Incubate for one hour.

Interpretation of Results

- Interferon gamma is captured and presented as spots from T cells sensitized to TB infection.
- Results are interpreted by subtracting the spot count in the negative (NIL) control from the spot count in Panels A and B.



PBMCs [] and specific TB antigens [] are added to wells pre-coated with antibodies to IFN-y [] and incubated 16 to 20 hours (37° C, CO₂).



Wells are washed. A substrate is added which produces spots [—] where interferon gamma was secreted by T cells. Spots are counted.



The T-SPOT. TB Test Kit

- Flexible, 96-well format
 - Twelve, 8-well strips
 - Four wells used per patient; 24 patients per kit
 - Positive and Negative control for each patient test
- Utilizes standard blood collection tubes
- No special lab equipment required
- A minimum of one patient test can be run



Product number: TB 300

