

Native Human Leukocyte Esterase unsonicated

Catalog No. CSI19679A **Quantity:** 5.0 ml
CSI19679B 25 ml

Alternate Names: WBC Esterase

Description: Human Leukocyte Esterase is used in urine test kits and manufacturing urine controls by major IVD manufactureres. The kits test for the presence of white blood cells abnormalities associated with infection. Leukocytes in urine tests reveal the presence of granulocyte esterases. The esterases cleave a derivatized pyrazole amino acid ester to liberate derivatized hydroxy pyrazole. This pyrazole then reacts with a diazonium salt to produce a purple color.

The presence of white blood cells in the urine usually indicates a urinary tract infection. Human leukocyte esterase test detects human esterase, an enzyme released by white blood cells. Human White blood cells are produced in the bone marrow and help to defend the body against infectious disease and foreign materials as part of the immune system. Human Leukocytosis is very common in acutely ill patients. It occurs in response to a wide variety of conditions, including viral, bacterial, fungal, or parasitic infection, cancer, and exposure to certain medications or chemicals.

Concentration: >5.0 U/ml

Unit Definition: One unit will catalyze the hydrolysis of one micromole of methoxy succinyl-alanine-proline-valine-p-nitroanilide per minute at 37°C and pH 7.5 (In the presence of 500 mM sodium chloride and 0.2% Triton X-100).

Source: Human Whole Leukocytes

Formulation: Frozen Liquid in 154 mM NaCl unsonicated

Appearance: Milky white

Storage & Stability: Store at -20°C. 1 year.

Note: On lysing the leukocytes, 0.45 mL per liter of saline will give a positive reaction for leukocytes with Roche Chemstrip® 10 SG or Siemens Multistix® 10 SG.

Certification: US origin donors have been tested and found to be **NEGATIVE** for HbsAg, HCV, HIV-1 & -2, Syphilis, and HIV-1 antigen by currently approved FDA methods.

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