Leukocyte Alkaline Phosphatase
ARUP test code 0049000

Leukocyte Alkaline Phosphatase

184 H (Ref Interval: 33-149)

TEST INFORMATION: Leukocyte Alkaline Phosphatase (LAP) Stain
Access complete set of age- and/or gender specific reference
intervals for this test in the ARUP Laboratory Test Directory
(aruplab.com). The LAP stain determines cytoplasmic LAP enzyme
activity in segmented neutrophils and bands. An
increased/decreased LAP score can occur in various disease
conditions. A frequent use of this test is to differentiate
between Chronic Myelogenous Leukemia (CML) and a leukemoid
reaction. CML has a decreased LAP score; leukemoid reaction has
an increased LAP score.

Methodology: Enzyme cytochemistry - The LAP enzyme present in
neutrophils hydrolyzes the substrate Naphthol AS-BI Phosphate.
The hydrolyzed product couples with the dye (fast red violet
Salt L.B.) to form an insoluble red-brown precipitate in the
cytoplasm. Smears are counterstained with hematoxylin. The
smears are examined microscopically.
Results of this test must be interpreted within the clinical
context. This test should not be used alone to determine
diagnosis.
Test developed by ARUP Laboratories.