TEST: MISCELLANEOUS CHEMISTRIES
URIC ACID
IRON
TOTAL IRON BINDING CAPACITY (TIBC)
LDH (LACTATE DEHYDROGENASE)
γGT (GAMMA GLUTAMYLTRANSFERASE)

PRINCIPLE:
The VITROS slides are dry, multilayered analytical elements coated on polyester supports. A small amount of patient sample is deposited onto the slide and evenly distributed to all of the layers. The spreading layer contains the appropriate substrate and other components needed for the reaction. The analyte in the sample catalyzes the reaction sequence to yield products which absorb light at wavelengths in various regions (340 – 680nm), diffuses into the underlying layer, and is monitored by reflectance spectrophotometry. The test types are colorimetric, enzymatic end point, two-point or multi-point rate, or potentiometric. The rate of change in reflection density in converted to enzymatic activity or the amount of colored complex formed is proportional to the analyte concentration in the sample.

SPECIMEN REQUIREMENTS:
2ml of serum collected in a red top tube with a serum separator (gel barrier). Centrifuge the specimen after it has clotted to prevent hemolysis. Send to the lab at room temperature. If the blood is not sent to lab the same day it is drawn, centrifuge the specimen and refrigerate. Serum that is hemolyzed and/or lipemic may interfere with some chemistries and may be rejected.

METHOD:
Dry Slide Chemistry.

REFERENCES:

Normal Range:
Uric Acid: Female: 17-34 years of age: 2.5-6.2 mg/dl
35-44 years of age: 2.5-7.0 mg/dl
> 44 years of age: 2.5-7.5 mg/dl
Male: 3.5-8.5 mg/dl

LDH: 313-618 U/L
Iron: Female: 37-170 ug/dl
Male: 49-181 ug/dl
TIBC: Female: 265-497 ug/dl
Male: 261-462 ug/dl
γGT: 12-58 U/L

Turnaround time: 2 days