

AHRO Laboratories' Catalog of Tests L-N

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Subject/Title:

AHRO Laboratories Catalog of Tests L-N

Catalog Format: Review the following alphabetical listing of our lab test catalog for each of our offered tests. Each page has at least the following elements:

Test Name

Alternate Test Name

LIS/HIS Code

Storage/Transportation

Specimen Requirements

Optimal Volume

Minimal Volume

Post Testing Storage

Patient Preparation

Collection Instructions

Reference Ranges

Methodology

Additional Information

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Lactic Acid	
Alternate Test Name	Lactate
HIS Code / LIS Code	LACTIC
Where Performed	AHRO
Transportation/Storage	Keep the sample on ice and separate plasma from cells within 15 minutes of collection.
Specimen Requirements	Sodium Fluoride Plasma on ICE
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Storage	Analyze fresh. Samples are stable stored at 15 - 25°C for up to 8 hours or at 2 - 8°C for up to 14 days
Patient Preparation	Glycolysis resulting from physical exercise increases lactate concentrations in the blood stream. The patient should be at rest before taking the sample. In particular, movement of the hand or arm should be avoided.
Reference Ranges	< 2.0 mmol/L
Methodology	Lactate Oxidase
Additional Test Information	Keep sample on ice and separate plasma from cells within 15 minutes of collection.

LDH (Blood or BF)	
Alternate Test Name	LDH, Lactate Dehydrogenase
HIS Code / LIS Code	Blood: LD BF: BFLD
Where Performed	AHRO
Transportation/Storage	Run immediately in chemistry.
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Storage	Room Temp. Run Immediately
Patient Preparation	None
Reference Ranges:	Blood: 75 - 200 U/L BF: No Range
Methodology	Enzymatic Rate
Additional Information	

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LDL, direct	
Alternate Test Name	Low Density Lipoprotein, Direct measurement
HIS Code / LIS Code	LDLD
Where Performed	AHRO
Transportation/Storage	5 days at 2-8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Patient Preparation	Patient should be fasting 10 to 12 hours
Reference Ranges	<100 mg/dL
Methodology	Liquid Selective Detergent
Additional Information	Calculated LDL is included in lipid panel.

Legionella Urinary Antigen Test	
Alternate Test Name	
HIS Code / LIS Code	ULEGAGR
Where Performed	AHRO
Transportation/Storage	Store and transport at 2-8°C.
Specimen Container	Sterile Screw Cap Container
Preferred Specimen	Fresh collected urine
Instructions	Collect fresh urine in sterile, leak-proof container without media, or preservative
Reference Ranges	Presumptive negative for L. pneumophila serogroup 1 antigen in urine, suggesting no recent or current infection. Infection due to Legionella cannot be ruled out since other serogroups and species may cause disease, antigen may not be present in urine in early infection, and the level of antigen present in the urine maybe below the detection limit of the test
Methodology	Enzyme Immunoassay
Set-Up Schedule	Processed daily

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Lipase (Blood, OBF)	
Alternate Test Name	
HIS Code / LIS Code	Blood: LIPASE BF: BF LIPASE
Where Performed	AHRO
Transportation/Storage	5 days at 2-8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	Blood: 5 - 82 U/L OBF: No Range
Methodology	Enzymatic, Colorimetric
Additional Information	

Lithium	
Alternate Test Name	
HIS Code / LIS Code	LITH
Where Performed	AHRO
Transportation/Storage	7 days at 2-8°C
Specimen Requirements	Serum
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Patient Preparation	Draw 12 hours post oral dose if dose is known.
Reference Ranges	0.6 – 1.2 mmol/L
Methodology	Colorimetric/Endpoint
Additional Information	Note last dose time with requisition in the LIS or HIS.

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Malaria Smears	
Alternate Test Name	
HIS Code / LIS Code	1392, MALORG
Where Performed	Reference Lab
Transportation/Storage	Room Temp
Specimen Requirements	Slides maybe made from EDTA specimen as soon as possible after blood is drawn, or directly from finger-stick of patient.
Optimal Volume	1.0 mL
Minimal Volume	0.5mL
Storage	Room Temperature
Patient Preparation	It is preferred that specimen is obtained during a febrile episode
Reference Ranges	No malaria parasites are seen in a normal individual.
Methodology	Wright's Giemsa Stain
Additional Information	

Manual Differential	
Alternate Test Name	Differential, Diff
HIS Code / LIS Code	1771,DIFF, MANDIF
Where Performed	AHRO
Transportation/Storage	Performed at laboratory where ordered
Specimen Requirements	Peripheral smear, preferably at the time of collection
Patient Preparation	None
Reference Ranges	Neutrophils 40 - 74% Lymphs 19 - 48% Monos 3.4 - 9.0 % Eos 0 - 7% Basos 0 - 1.5% Bands 0 - 10% Meta 0 - 1%
Methodology	Microscopic observation
Additional Information	Included in a CBC order, the manual differential is performed on samples with abnormal results. The physician may order a manual differential in place of the automated differential.

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Micro Albumin, Urine									
Alternate Test Name									
HIS Code / LIS Code	Random urine: UMICRALBR								
Where Performed	AHRO								
Transportation/Storage	30 days at 2 - 8°C								
Specimen Requirements	Random								
Optimal Volume	1 mL								
Minimal Volume	0.25 mL								
Storage	30 days at 2 - 8°C								
Patient Preparation	None								
Reference Ranges	<p>The ADA has defined abnormalities in albumin excretion as follows:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Category</th> <th style="text-align: right; border-bottom: 1px solid black;">Result (mg/g Creatinine)</th> </tr> </thead> <tbody> <tr> <td>Normal</td> <td style="text-align: right;"><30</td> </tr> <tr> <td>Microalbuminuria</td> <td style="text-align: right;">30 - 300</td> </tr> <tr> <td>Clinical Microalbuminuria</td> <td style="text-align: right;">>300</td> </tr> </tbody> </table> <p>The ADA recommends that at least two of three specimens collected within a 3-6 month period be abnormal before considering a patient to be within a diagnostic category.</p>	Category	Result (mg/g Creatinine)	Normal	<30	Microalbuminuria	30 - 300	Clinical Microalbuminuria	>300
Category	Result (mg/g Creatinine)								
Normal	<30								
Microalbuminuria	30 - 300								
Clinical Microalbuminuria	>300								
Methodology	Immunoturbidmetric								
Additional Information									

Magnesium	
Alternate Test Name	Mg ⁺⁺
HIS Code / LIS Code	MG
Where Performed	AHRO
Transportation/Storage	7 days at 2-8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	1.8 - 2.5 mg/dL

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Methodology	Xylidyl Blue
Additional Information	

MB	
Alternate Test Name	CPK MB, Mass MB, CK-MB
HIS Code / LIS Code	CKMB (No Total or Index)
Where Performed	AHRO
Transportation/Storage	8 Hours at Room Temp / 48 hours at 2-8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	0.6 – 6.3 ng/ml
Methodology	Two-site Sandwich Immunoenzymatic Assay
Additional Information	When ordered in a panel with CPK, the index of CPK-MB/Total CPK is calculated with the MB also. The normal index is <3.9%

Methemoglobin	
Alternate Test Name	M-Hemoglobin
HIS Code / LIS Code	1157/MHGB
Where performed	AHRO
Transportation/Storage	Run immediately in chemistry.
Specimen Requirements	Heparinized or EDTA Whole Blood
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Storage	2 hours on Ice
Patient Preparation	None
Reference Ranges	0.2 - 0.6%
Methodology	Wavelength Filter Absorbances
Additional Information	

Micro Total Protein (CSF or OBF or Urine)	
Alternate Test Name	MTP, fluid protein

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HIS Code / LIS Code	CSF: 1512/CTPP OBF: 1187/FPRO Urine, Random: 1185/UTPR Urine, Timed: 1185T/UPRO
Where Performed	FMC/RMH
Transportation/Storage	Run immediately in chemistry.
Specimen Requirements	CSF or OBF or Urine
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Storage	2 days at 2-8°C
Patient Preparation	If a timed urine collection, patient starts collecting urine the next day discards the first AM void and then collects all following voids for 24 hours or specified time.
Reference Ranges	CSF: 15 - 45 mg/dL OBF: No Range Urine, Random: <10 mg/dL Urine, Timed: 0 - 150 mg/24 hours
Methodology	Pyrogallol Red
Additional Information	Urine, Timed: Note volume

Total Protein (CSF or BF or Urine)	
Alternate Test Name	MTP, fluid protein
HIS Code / LIS Code	
Where Performed	
Transportation/Storage	Run immediately in chemistry.
Specimen Requirements	CSF or OBF or Urine
Optimal Volume	1 mL
Minimal Volume	0.25 mL
Storage	2 days at 2-8°C
Patient Preparation	If a timed urine collection, patient starts collecting urine the next day discards the first AM void and then collects

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	all following voids for 24 hours or specified time.
Reference Ranges	CSF: 15 - 45 mg/dL OBF: No Range Urine, Random: <10 mg/dL Urine, Timed: 0 - 150 mg/24 hours
Methodology	Pyrogallol Red
Additional Information	Urine, Timed: Note volume

Monospot Slide Test	
Alternate Test Name	Infectious Mononucleosis, Mono
HIS Code / LIS Code	1431, MSPT
Where Performed	AHRO
Transportation/Storage	Run as soon as received in laboratory.
Specimen Requirements	7.0 mL or 3.0 mL clot tube or 3.0 mL EDTA plasma tube. Serum or plasma should be free from gross hemolysis, clear and free of bacterial contamination.
Optimal Volume	1.0 mL serum/EDTA plasma
Minimal Volume	100 µL serum/EDTA plasma
Storage	Serum or plasma should be separated from the cells and can be stored for 24 hours at 2° to 8° C. Specimens should be frozen, if stored longer than 24 hours at -20°C or less.
Patient Preparation	None
Reference Ranges	Negative
Methodology	Hemagglutination of sheep erythrocytes
Additional Test Information	

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Neonatal Bilirubin	
Alternate Test Name	N-Bili
HIS Code / LIS Code	BILIN
Where Performed	AHRO
Transportation/Storage	Run immediately in chemistry.
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	0.5 mL
Minimal Volume	0.25 mL
Storage	24 hours at 2-8°C when well protected from light
Patient Preparation	None
Reference Ranges	<p style="text-align: center;">0-24 hours: 2- 6 mg/dl</p> <p style="text-align: center;">24 -48 hours: 6-10 mg/dl</p> <p style="text-align: center;">48-120 hours: 1.5-12 mg/dl</p>
Methodology	Diazonium Salt
Additional Information	Protect from light