ACL Laboratories
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Test Bulletin

September 2024

ACL Implements New In-House Test Dihydropyrimidine Dehydrogenase (DPYD), 6 Variants

Effective Tuesday, September 17, 2024, ACL Laboratories implemented a new test Dihydropyrimidine Dehydrogenase (DPYD), 6 Variants. (Test Order Code LAB12430).

Clinical Indication: The DPYD gene encodes dihydropyrimidine dehydrogenase (DPD), the rate-limiting enzyme for fluoropyrimidine catabolism. Reduced activity of DPD results in reduced clearance and accumulation of 5-fluorouracil. The fluoropyrimidine drugs 5-fluorouracil and capecitabine are widely used in the treatment of solid tumors including colorectal and breast cancer, and cancers of the digestive tract. In individuals with reduced DPD activity, treatment with these drugs can lead to increased levels of 5-fluorouracil cause profound dose-related toxicities, such as severe digestive tract effects, neutropenia, and hand-foot syndrome. In some cases, these toxicities can lead to death.

Test Method: This test will be performed by ACL Laboratories using a laboratory developed test method based on PCR and Mass Spectrometry.

Specimen Requirements: One pink (K2EDTA) 6.0 mL OR Two lavender (K2EDTA) 3.0 mL OR One ORAcollect Dx Buccal Swab kit

Patient preparation for ORAcollect Dx Buccal Swab kit- Collect One buccal swab using the Oracollect collection kit ensuring the sponge tip does not come into contact with any surface prior to collection. Patient should not eat, drink, smoke, or chew gum for 30 minutes before collecting oral sample.

Buccal swab will be orderable for clients using Workday: item # 3029385 Container Collection Liquid Sample Painless Noninvasive Bacteriostatic ORAcollect.

Transport: 5.0 mL (minimum 1.0 mL) whole blood or buccal swab, Refrigerated

Stability: Ambient: 3 days whole blood, 1 week ORAcollect swab; Refrigerated: 2 weeks whole blood, 2 weeks ORAcollect swab; Frozen: Unacceptable

Performed: Weekdays

Performing Sites: Illinois Central Laboratory

Reporting Time: Final within 7 days

Effective Tuesday, September 17 2024, ARUP send out, Dihydropyrimidine Dehydrogenase (DPYD), 3 Variants (Test Order Code LAB9065) has been discontinued.

This new ACL assay includes the three variants tested in the current reference laboratory DPYD assay, as well as three additional variants not in the reference laboratory assay.

Allele	Clinical Functional Status
Reference (*1)	Normal function
c.1905+1G>A (*2A)	Nonfunctional
c.1679T>G (*13)	Nonfunctional
c.2846A>T	Decreased function
c.1129-5923C>G	Decreased function
c.1129-5923C>G, c.1236G>A (HapB3)	Decreased function
c.557A>G	Decreased function

For additional information regarding this test, as well as specimen collection requirements, please contact ACL Client Services at 1.800.877.7016 or visit ACL's website at https://www.acllaboratories.com/providers/test-directory/.

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Updated Reference Ranges for Varicella Zoster Virus Immunity IgG Testing

Effective Monday, September 23, 2024, the reference ranges and reporting units changed for Varicella Zoster Virus IgG (Test Order Code VARIC/LAB8230) testing. The manufacturer has reformulated the reagent. With the transition to the new reagent, units of the numerical results will change to "signal to the cut-off (S/CO)". The reference range will also change from >=165.0 index to >=1.00 S/CO. Interpretative comments will be modified to reflect the changes to the reference range. There are no changes to specimen collection requirements or turnaround time. Summary of the changes are identified below:

	Former Reagent	New Reagent Effective September 23, 2024
Units	Index	S/CO
Reference Range	>=165.0	>=1.00
Interpretation	<165.0 : Non Immune >=165.0 : Immune	<1.00 : Non Immune >=1.00 : Immune

ACL Discontinues In-House Single Order JAK2 Quantitative (Test Order Code LAB9941)

Effective Tuesday, September 17, 2024, ACL Laboratories discontinued in-house single order JAK2 Quantitative (Test Order Code LAB9941).

This change is intended to eliminate ordering errors, improve turnaround time, and reduce patient cost.

An alternate laboratory test for JAK2 p.V617F Exon 14 analyte is Myeloproliferative Neoplasm Panel (MPN) (Test Order Code LAB12257). MPN panel includes the following genes: JAK2 p.V617F Exon 14, JAK2 Exon 12,13,14,15, CALR Exon 9, and MPL Exon 10. Limit of detection for p.V617F Exon 14 is >1%.

Collection Requirements:

- Whole Blood: 3.0 mL (Min: 1.5 mL) whole blood refrigerated
- Bone Marrow: 3.0 mL (Min: 1.0 mL) bone marrow refrigerated

For additional information regarding this test, as well as specimen collection requirements, please contact ACL Client Services at 1.800.877.7016 or visit ACL's website at https://www.acllaboratories.com/providers/test-directory/.

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ACL Announces Methodology Changes in Special Coagulation

Effective Tuesday, September 17, 2024, ACL Laboratories transitioned the following tests from the Siemens BCS and ST4-BIO platform to the Werfen ACL Top 750 platform.

Allele	Clinical Functional Status
Protein C Activity	Protein C Activity, Reflex
Protein S Activity	Protein S Activity, Reflex
Activated Protein C Resistance	Activated Protein C Resistance, with Reflex
Platelet Factor 4, Heparin Associated Antibody*	Platelet Factor 4, Heparin Associated Antibody with Reflex**
Inhibitor Screen	Decreased function

* Replacing – Platelet Factor 4, Heparin Associated Antibody IgG
**Replacing - Platelet Factor 4, Heparin Associated Antibody IgG with Reflex

On ACL Top 750, Platelet Factor 4, Heparin (PF4) Associated Antibody assay will be fully automated latex enhanced immunoassay with ability to detect IgG, IgA and IgM antibody using PF4 polystyrene latex nanoparticle complexes. The PF4 test will report a numeric result and a qualitative result interpretation using ranges below:

Negative	0.0 - 0.9 U/mL
Weak Positive	1.0 - 4.9 U/mL
Moderate Positive	5.0 - 15.9 U/mL
Strong Positive	>/= 16.0 U/mL

Modifications to reference ranges and reflex testing are summarized below.

Test	Before September 17, 2024	Effective September 17, 2024
Protein C Activity	74-116% (Female >16 yrs.)	>70% (Female >16 yrs.)
Protein C Activity	65-121% (Male >16 yrs.)	>70% (Male >16 yrs.)
Protein S Activity	60-110% (Female >16 yrs.)	>60% (Female >16 yrs.)
Protein S Activity	65-125% (Male >16 yrs.)	>60% (Male >16 yrs.)
Reflex Changes: Test	Before September 17, 2024	Effective September 17, 2024
Protein C Activity, Reflex	<74% (Female)	<=70% (Female)
Protein C Activity, Reflex	<65% (Male)	<=70% (Male)
Protein S Activity, Reflex	<60% or >110% (Female >16 yrs.)	<=60% (Female >16 yrs.)
Protein S Activity, Reflex	<65% or >125% (Male >16 yrs.)	<=60% (Male >16 yrs.)
Platelet Factor 4, Heparin Associated Antibody IgG with Reflex	Positive or Equivocal	Weak Positive, Moderate Positive, or Strong Positive

For additional information regarding this test, as well as specimen collection requirements, please contact ACL Client Services at 1.800.877.7016 or visit ACL's website at https://www.acllaboratories.com/providers/test-directory/.

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ACL Laboratories Updates Test Order Codes

ACL is currently updating test order codes that have alpha codes, i.e., current Test Order Code BPNL will change to Test Order Code LAB8235.

August 2024 test order code updates were previously included in ACL's monthly Outreach Bundle communication. We are including August, September, and October changes in this bulletin as another reminder. Changes are being made in batches and will continue to be provided in ACL's Outreach Bundle communication as well as included in monthly Test Bulletins.

Below is a list of changes that will be happening in October, as well as the changes that occurred in August and September. Due to the holidays, we will not be making any changes in November, December, and January. We will begin updating test order codes in February 2025.

Please ensure your EMR test compendium is updated with ACL's new test order codes.

Changes Effective August 2024

Test Name	Prior Test Order Code	Current Test Order Code
Thyroid Stimulating Hormone Reflex	TSHR	LAB8168
C Reactive Protein	CRP	LAB8181
Vitamin D -25 Hydroxy	25VDR	LAB8229
Ferritin	FERR	LAB8259
GGT	GGTP	LAB8263
Glycohemoglobin	GLYH	LAB8266
Magnesium	MG	LAB8274
Sedimentation Rate	RESR	LAB8381
HIV 1/HIV 2 Antigen/Antibody Screen	HIVSCR	LAB8483
SYPT T. pallidum Total IgG/IgM Ab Reverse Syphilis Screen Algorithm	SYPT	LAB8563
Urine, Bacterial Culture	URC	LAB9005
QuantiFERON TB Plus	QUANTP	LAB9049

Changes Effective September 2024

Test Name	Current Test Order Code	New Test Order Code Effective Tuesday, September 17, 2024
Urinalysis & Reflex Microscopy with Culture if Indicated	UACS	LAB10221
Pap Order	PAPTEST	LAB10332
Lipid Panel with Reflex	LIPPNL	LAB8135
Vitamin B12 and Folate	B12FOL	LAB8171
Iron and Total Iron Binding Capacity	IRONP	LAB8203
Basic Metabolic Panel	BPNL	LAB8235
Comprehensive Metabolic Panel	CPNL	LAB8250
Creatinine	CREATG	LAB8253
Hepatic Function Panel	LIVPNL	LAB8267
Lipid Panel Without Reflex	LIPDPL	LAB8270
Phosphorus	PHOS	LAB8279
Free T4	Ft4	LAB8262

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Changes Effective September 2024 (continued)

Result Component	Current Test Order Code	New Test Order Code Effective Tuesday, September 17, 2024
T4, Free	FT4	12300330

Changes Effective Tuesday, October 15, 2024

Test Name	Current Test Order Code	New Test Order Code Effective Tuesday, October 15, 2024
Potassium	K	LAB8282
Sodium	NA	LAB8294
Uric Acid	URIC	LAB8303
Vitamin B12	VB12	LAB8306
Prothrombin Time (INR/PT)	PTINR	LAB8443
Urinalysis with Microscopy without Culture	UCOM	LAB8452
Microalbumin Urine Random	MAR	LAB8567
PSA	PSA	LAB9050
Surgical Pathology	BIOPSY	LAB9054
Chlamydia/Gonorrhea by Nucleic Acid Amplification	CGRNA	LAB9939

For additional information regarding these tests, as well as specimen collection requirements, please contact ACL Client Services at 1.800.877.7016 or visit ACL's website at https://www.acllaboratories.com/providers/test-directory/.

Alpha Defensin, Lateral

Effective Wednesday, September 4, 2024, Alpha Defensin, Lateral (Test Order Code LAB11582) has been reactivated.

For additional information regarding this test, as well as specimen collection requirements, please contact ACL Client Services at 1.800.877.7016 or visit ACL's website at https://www.acllaboratories.com/providers/test-directory/.

New Orderable Code for IGF Binding Protein-3, Pediatric

Effective Tuesday, September 17, 2024, IGF Binding Protein-3, Pediatric (Test Order Code LAB12455) is now available as an orderable test code with testing performed at ARUP Laboratories. Providers will no longer have to utilize a Miscellaneous test order code for ordering. Test information is below.

Test Information	IGF Binding Protein-3, Pediatric (Test Order Code LAB12455)
Specimen Requirement	0.5 mL (min 0.3 mL) serum
Collection Tube	Gold Gel
Temperature	Frozen
Stability	5 days
Methodology	Quantitative Chemiluminescent Immunoassay
TAT	4 days
Performing Lab	ARUP

For additional information regarding these tests, as well as specimen collection requirements, please contact ACL Client Services at 1.800.877.7016 or visit ACL's website at https://www.acllaboratories.com/providers/test-directory/.

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Updated Referral Testing Orderable Codes

Effective Tuesday, September 17, 2024, the following send out assays have been updated.

	Current (Deactivated 9.17.2024)	Replacement (Activated 9.17.2024)	Replacement (Activated 9.17.2024)
Test Name	Histoplasma Capsulatum Antigen	Histoplasma Antigen Quantitative by EIA, Serum	Histoplasma Galactomannan Antigen by EIA, Quantitative, Other Body Fluids
Test Order Code	LAB9593	LAB12456	LAB12457
Performing Lab	CCL	ARUP	ARUP
Specimen Type	Serum, CSF, Body Fluid	2.0mL (min 1.2mL) serum	2.0mL (min 1.2mL) plasma 1.0mL (min 0.8mL) CSF 1.0mL (min 0.5mL) Bronchoalveolar Lavage
Collection Tube	Gold Gel or Sterile Container	Gold Gel	Lavender EDTA Sterile Container for CSF or Bronchoalveolar Lavage
Temperature	Refrigerated	Refrigerated	Refrigerated
Stability	2 weeks	2 weeks	2 weeks
Methodology	Enzyme Immunoassay (EIA)	Enzyme Immunoassay (EIA)	Quantitative Enzyme-Linked Immunosorbent Assay (ELISA)
TAT	6 days	6 days	6 days

For additional information regarding these tests, as well as specimen collection requirements, please contact ACL Client Services at 1.800.877.7016 or visit ACL's website at https://www.acllaboratories.com/providers/test-directory/.

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