

Anatomic Pathology

Breast Pathology	Genitourinary / Uro pathology
Cytopathology	Hematopathology
Dermatopathology	Podiatric Pathology
Epidermal Nerve Fiber Density (ENFD) Skin Biopsy	Surgical Pathology
Gastrointestinal Pathology	Women's Health / Gynecologic Pathology

Fluorescence In Situ Hybridization (FISH) Typical TAT: 5 Days

Acute Lymphocytic Leukemia (ALL) Panel

(BCR/ABL1 t(9;22), MLL (11q23), ETV6(TEL)/RUNX1(AML1) t(12;21))

Acute Myeloid Leukemia (AML) Panel

(RUNX1T1/RUNX1 t(8;21), PML/RARA t(15;17), inv(16) (CBFB), 11q23 (MLL))

Chronic Lymphocytic Leukemia (CLL) Panel

(11q22.3 ATM, 13q14.3/D13S25, 17p13.1 P53, CEP12, t(11;14) CCND1/IGH, 6q23.3 MYB)

Chronic Myeloid Leukemia (CML)

(BCR/ABL1/ASS1 t(9;22))

Multiple Myeloma Panel

(D5S23, CEP9, CEP15, CEP11, TP53, 13q14.3/D13S25, IGH)

Multiple Myeloma Reflex Panel

(CCND1 (BCL1)/IGH, FGFR3/IGH, IGH/MAF)

Myelodysplastic Syndrome (MDS) Panel

(EGR1, 7q31/del7q, CEP8, 20q12, MLL)

Non-Hodgkin Lymphoma (NHL) Panel

(ALK, IGH, BCL6, MYC, CCND1/IGH, IGH/BCL2, BIRC3/MALT1, IGH/MALT1)

Flow Cytometry Typical TAT: 1 Day

Acute B-Lymphoblastic Leukemia (B-ALL)

CD10, CD19, CD20, CD34, CD45, CD79a, TdT, cCD22

Acute Erythroid / Megakaryoblastic Leukemia (M6/M7) Panel

CD34, CD41a, CD61, CD71, CD117, CD235a, HLA-DR, CD45

Acute Myeloid Leukemia (AML)

CD33, CD34, CD117, CD123, HLA-DR, cMPO, CD45

Acute T-Lymphoblastic Leukemia (T-ALL)

CD1a, CD5, CD7, CD10, CD34, CD45, TdT, cCD3

CD4/CD8 Ratio Panel (BAL / Tissue)

CD3, CD4, CD8

Chronic Lymphocytic Leukemia (CLL)

CD5, CD19, CD20, CD23, CD38, CD49d, CD200, CD45

Follicular Cell Lymphoma (FCL)

CD10, CD19, CD20, CD45, cKappa, Lambda, c-BCL2

Hairy Cell Leukemia

CD11c, CD20, CD25, CD103, CD45

Multiple Myeloma (MM)

CD38, CD138, CD56, CD117, CD19, CD20, CD45, cKappa, cLambda

T-Cell Clonality Panel

TRBC1, CD3, CD4, CD5, CD7, CD8, CD45

T-Cell Receptor (TCR) $\alpha\beta$ / $\gamma\delta$ Panel (LGL Evaluation)

TCR $\alpha\beta$, TCR $\gamma\delta$, CD2, CD3, CD4, CD5, CD7, CD8, CD56, CD57, CD45

Comprehensive Leukemia Lymphoma Panel

Kappa, Lambda, CD5, CD200, CD34, CD38, CD20, CD19, TCR $\gamma\delta$, CD4, CD2, CD56, CD7, CD8, CD3, CD45, CD16, CD10, CD64, CD14, HLA-DR, CD11b, CD15, CD123, CD117, CD13, CD33, and CD38

B&T Panel (tissue, fluid, CSF)

Kappa, Lambda, CD5, CD10, CD200, CD34, CD38, CD20, CD19, TCR $\gamma\delta$, CD4, CD2, CD56, CD7, CD8, CD3, CD45

Synatra™ Integrated Diagnostic Evaluation

Flow, Cytogenetic, FISH, PCR, Histology/Cytology

Immunohistochemistry (IHC) Typical TAT: (Technical) 2 Days (Global) 3 Days

Cytokeratins / Epithelial

AE1/AE3, CAM5.2, CK5/6, CK7, CK19, CK20, CK HMW (CK903/34BE12), Ber-EP4, Epithelial Membrane Antigen (EMA), E-Cadherin

Lymphoid / Hematopathology

CD1a, CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD19, CD20, CD21, CD22, CD23, CD25, CD30, CD31, CD34, CD35, CD38, CD43, CD44, CD45RO, CD56, CD57, CD61, CD68, CD79a, CD99, BCL-1 (Cyclin D1), BCL-2, BCL-6, c-MYC, MUM1, TdT, TIA-1, Granzyme-B, Ki-67

Immunoglobulins / Plasma Cell

Immunoglobulin A (IgA), Immunoglobulin D (IgD), Immunoglobulin G (IgG), Immunoglobulin M (IgM), Kappa, Lambda

Breast / Hormone Receptors

Estrogen Receptor (ER) - Quantitative, Progesterone Receptor (PR) - Quantitative, Androgen Receptor, HER2/neu, Mammaglobin, GATA3

Genitourinary / Prostate

Prostate Specific Antigen (PSA), Prostatic Specific Acid Phosphatase (PSAP), P504S, PIN4 (CK5/14/p63/P504S)

Gastrointestinal / Hepatic

CDX2, HepPar1, Glypican-3, MUC1, MUC2, MUC5AC, MUC6, Villin

Lung / Mesothelial

TTF-1, Napsin A, Calretinin, D2-40, WT-1, Thrombomodulin

Melanoma

S100, SOX10, SOX11, MART-1 / Melan-A, HMB-45, MITF, Tyrosinase

Soft Tissue / Muscle

Desmin, Myogenin, MyoD1, Smooth Muscle Actin (SMA), Caldesmon, Calponin

Neuroendocrine

Chromogranin A, Synaptophysin, Neuron-Specific Enolase (NSE)

Predictive / Molecular

PD-L1 (22C3), PD-L1 (28-8), PD-L1 (SP142), EGFR, PTEN, p53

Infectious Disease

CMV, HSV I/II, Adenovirus, Varicella Zoster Virus (VZV), Toxoplasma gondii, Spirochetes, Helicobacter pylori

Tumor / Miscellaneous

AFP, CA-125, CA-19.9, Calcitonin, Galectin-3, ERG, PAX-5, PAX-8, Glycophorin-A, Inhibin Alpha

Amyloid / Protein Deposition Amyloid A, Amyloid P

Protease / Enzyme Markers

Alpha-1 Antitrypsin (AAT), Alpha-1 Antichymotrypsin

Molecular / PCR Testing Typical TAT: 7 Days

BRAF Mutation Analysis (V600E, V600K, V600D, V600R, V600M)

JAK2 Exon 12, 13 and 14 Mutation

JAK2 V617F

KRAS Mutation Analysis (G12D, G12V, G12c)

KRAS Mutation Analysis with Reflex to BRAF

BCR-ABL1 t(19;22) p210

Special Stains Typical TAT: 2 Days

AB/PAS

Alcian Blue 2.5

Congo Red

Copper

Elastic Stain

Feulgen

Fite

Reticulin

Fontana Giemsa

GMS

Gram +/-

Iron (Pearls) Masson' Trichrome

Mucin

PAS

PAS-D

Molecular Infectious Disease Typical TAT: 2 Days

UTIDX® Urinary Tract Infection Molecular Panel

STIDX™ Sexually Transmitted Infection Molecular Panel

GI Detect™ Gastrointestinal Pathogen Molecular Panel

RespiratoryDX™ Respiratory Infection Molecular Panel

WoundDX Wound Infection Molecular Panel

ProstatitisDX Prostatitis Infection Molecular Panel

Pre-Prostate Biopsy Rectal Swab (PPBRS)

Next Generation Sequencing (NGS) Typical TAT: 7 Days

Myeloid Neoplasm Panel

Comprehensive genomic profiling for myeloid malignancies including:

- Acute Myeloid Leukemia (AML)
- Myelodysplastic Syndromes (MDS)
- Myeloproliferative Neoplasms (MPN)

Hematologic Malignancy Comprehensive Panel

Solid Tumor Panel

Lymphoid Malignancy Panel

Targeted sequencing panel for evaluation of:

- Chronic Lymphocytic Leukemia (CLL)
- B-cell lymphomas
- T-cell lymphomas
- Other lymphoid neoplasms

Genes Included:

Full gene list available on the EmeritusDX NGS Panel Gene List document.

EmeritusDX performs a wide range of diagnostic testing within our CAP-accredited and CLIA-certified laboratory. Certain specialized assays may be referred to qualified reference laboratories to ensure access to the most advanced and clinically appropriate diagnostic services.

