

Client Information (required)

Client Name		
Client Account No.		
Client Phone	Client Order No.	
Address		
City	State	Zip Code

Submitting Provider/Provider Name Information (required)

Submitting/Referring Provider <i>(Last, First)</i>
Fill in only if Call Back is required. Phone () _____ - _____ Fax* () _____ - _____
Provider's National I.D. (NPI)

**Fax number given must be from a fax machine that complies with applicable HIPAA regulation.*

Pathologist's Name (required)

Submitting/Referring Pathologist <i>(Last, First)</i>
Phone () _____ - _____ Fax* () _____ - _____

**Fax number given must be from a fax machine that complies with applicable HIPAA regulation.*

New York State Patients: Informed Consent for Genetic Testing

<p>"I hereby confirm that informed consent has been signed by an individual legally authorized to do so and is on file with this office or the individual's provider's office."</p> <p>Signature _____</p>
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Note: It is the client's responsibility to maintain documentation of the order.

MCL Internal Use Only

Ship specimens to:
Mayo Clinic Laboratories
3050 Superior Drive NW
Rochester, MN 55901

Customer Service: 855-516-8404

Visit www.MayoClinicLabs.com for the most up-to-date test and shipping information.

Patient Information (required)

Patient ID <i>(Medical Record No.)</i>	
Patient Name <i>(Last, First, Middle)</i>	
Gender <input type="checkbox"/> Male <input type="checkbox"/> Female	Birth Date <i>(Month DD, YYYY)</i>
Collection Date <i>(Month DD, YYYY)</i>	Time <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.

Specimens Provided (required)

<input type="checkbox"/> Blood <input type="checkbox"/> Bone Marrow <input type="checkbox"/> Fixed Cells <input type="checkbox"/> Cultured Cells <input type="checkbox"/> DNA <input type="checkbox"/> Lymph Node <input type="checkbox"/> Spleen	<input type="checkbox"/> Paraffin block No. sent: _____ Indicate source: <input type="checkbox"/> Slides No. sent: _____	<input type="checkbox"/> Tissue No. sent: _____ <input type="checkbox"/> Frozen <input type="checkbox"/> Fixed Formalin <input type="checkbox"/> Wet Tissue <input type="checkbox"/> Other Fixative type: _____ <input type="checkbox"/> Other Anatomic site: _____
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CBC results:

HB _____	RBC _____	WBC _____
HCT _____	MCV _____	PLT _____

If ordering HER2 testing:

Was specimen fixed in 10% neutral buffered formalin within 1 hour from surgical collection time?
 Yes No

Has specimen been fixed in 10% neutral buffered formalin for 6 to 72 hours?
 Yes No

Pathology/Clinical Diagnosis (required)

<p><i>(Include a brief history, pertinent laboratory results, suspected diagnosis, and reason for referral.)</i></p>
ICD-10 Diagnosis Code

Billing Information

- An itemized invoice will be sent each month.
- Payment terms are net 30 days.

Call the Business Office with billing related questions:
800-447-6424 (US and Canada)
507-266-5490 (outside the US)

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FEATURED ONCOLOGY TESTING

PD-L1 Immunohistochemical stains

- PDL1 PD-L1 (SP263), Semi-Quantitative Immunohistochemistry, Manual
- PDL1S PD-L1 (SP142), Semi-Quantitative Immunohistochemistry, Manual
- PDL12 PD-L1 (22C3), Semi-Quantitative Immunohistochemistry, Manual

Microsatellite Instability (MSI)/Mismatch Repair

- MSIHC Microsatellite Instability (MSI)/Immunohistochemistry (IHC) Profile-Lynch/Hereditary Nonpolyposis Colorectal Cancer (HNPCC) Screen
- MSI Microsatellite Instability (MSI), Tumor
- IHC Mismatch Repair (MMR) Protein Immunohistochemistry Only, Tumor

Chromosome Analysis

- CHRBF Chromosome Analysis, Body Fluid
- CHRST Chromosome Analysis, Solid Tumors

Next-Generation Sequencing (NGS) Panels

- GISTP GIST-Targeted Gene Panel by Next-Generation Sequencing, Tumor
- LNGPR Lung Cancer-Targeted Gene Panel with Rearrangement, Tumor (mutations and rearrangements)
- MELP Melanoma Targeted Gene Panel by Next-Generation Sequencing, Tumor
- NONCP Neuro-Oncology Expanded Panel with Rearrangement, Tumor
- RASFP RAS/RAF Targeted Gene Panel by Next-Generation Sequencing, Tumor
- CAPN Solid Tumor Targeted Cancer Gene Panel by Next-Generation Sequencing

Chromosomal Microarray

- CMAPT Chromosomal Microarray, Tumor, Formalin-Fixed Paraffin-Embedded
- CMAT Chromosomal Microarray, Tumor, Fresh or Frozen using Affymetrix Cytoscan HD

Cell-Free DNA (cfDNA) Testing

- BRAFB Cell-Free DNA BRAF V600 Test, Blood
- EGFRD Cell-Free DNA EGFR Exon 18, 19, 20, 21, Mutation Analysis, Blood
- T790M Cell-Free DNA EGFR T790M Mutation Analysis, Blood
- KRASD Cell-Free DNA KRAS 12, 13, 61, 146, Blood

PATHOLOGY

- PATHC Pathology Consultation
Appropriate stains and ancillary testing may be performed in order to render an accurate diagnosis

MATE PAIR SEQUENCING

- MTRTI MatePair, Targeted Rearrangements, Oncology

PATHOLOGY: TARGETED TUMOR TESTING

Bone and Soft Tissue

- FOXOF Alveolar Rhabdomyosarcoma (ARMS), 13q14 (FOXO1 or FKHR) Rearrangement, FISH, Tissue
- ETV6F ETV6 (12p13.2) Rearrangement, FISH, Tissue
- ARMS Alveolar Rhabdomyosarcoma by Reverse Transcriptase PCR (RT-PCR)
- TFE3F Alveolar Soft Part Sarcoma (ASPS)/Renal Cell Carcinoma (RCC), Xp11.23 (TFE3), FISH, Tissue
- MASF Angiosarcoma, MYC (8q24) Amplification, FISH, Tissue
- CTNNB Beta-Catenin (CTNNB1) Mutation Analysis, Tumor
- DSRCT Desmoplastic Small Round-Cell Tumor by Reverse Transcriptase PCR (RT-PCR)
- ESTUF Endometrial Stromal Tumors (EST), 7p15 (JAZF1), 6p21.32 (PHF1), 17p13.3 (YWHAE) Rearrangement, FISH, Tissue
- EWSF Ewing Sarcoma (EWS), 22q12 (EWSR1) Rearrangement, FISH, Tissue

- EWS Ewing Sarcoma, by Reverse Transcriptase PCR (RT-PCR)
- IMTF Inflammatory Myofibroblastic Tumors (IMT), 2p23 (ALK) Rearrangement, FISH, Tissue
- KIT8 KIT Exon 8, Mutation Analysis
- KIT9 KIT Exon 9, Mutation Analysis
- KIT11 KIT Exon 11, Mutation Analysis
- KIT13 KIT Exon 13, Mutation Analysis
- KIT17 KIT Exon 17, Mutation Analysis
- FUSF Low-Grade Fibromyxoid Sarcoma (LGFMS), 16p11.2 (FUS or TLS) Rearrangement, FISH, Tissue
- MDM2F MDM2 (12q15) Amplification, Well-Differentiated Liposarcoma/Atypical Lipomatous Tumor, FISH, Tissue
- DDITF Myxoid/Round Cell Liposarcoma, 12q13 (DDIT3 or CHOP) Rearrangement, FISH, Tissue
- MYCNF Neuroblastoma, 2p24 (MYCN) Amplification, FISH
- PDG12 PDGFRA Exon 12, Mutation Analysis
- PDG14 PDGFRA Exon 14, Mutation Analysis
- PDG18 PDGFRA Exon 18, Mutation Analysis
- PDGF PDGFB (22q13), Dermatofibrosarcoma Protuberans/Giant Cell Fibroblastoma, FISH, Tissue
- SS18F Synovial Sarcoma (SS), 18q11.2 (SS18 or SYT) Rearrangement, FISH, Tissue
- SYT Synovial Sarcoma by Reverse Transcriptase PCR (RT-PCR)
- USPF USP6 (17p13), Aneurysmal Bone Cyst and Nodular Fasciitis, FISH, Tissue

Breast

- MASF Angiosarcoma, MYC (8q24) Amplification, FISH, Tissue
- CTCBC Circulating Tumor Cells (CTC) for Breast Cancer by CellSearch, Blood
- FGF1F FGFR1 (8p11.2) Amplification, FISH, Tissue
- HER2F HER2 Amplification Associated with Breast Cancer, FISH, Tissue
- ESR1 Estrogen Receptor 1 (ESR1) Mutation Analysis, Tumor
- ETV6F ETV6 (12p13.2) Rearrangement, FISH, Tissue

Immunohistochemical assays interpreted with digital image analysis

- ERPR Estrogen/Progesterone Receptor, Semi-Quantitative, Manual
- Ki67B Ki-67(MIB-1), Breast, Quantitative, Automated
- HERBA Breast, Quantitative, Automated with HER2 FISH reflex
- HERBN HER2, Breast, Quantitative, Automated, No Reflex
- HERDM HER2, Breast, DCIS, Quantitative, Manual with HER2 FISH Reflex
- HERDN HER2, Breast, DCIS, Quantitative, Manual No Reflex

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Gastrointestinal

BILAO Biliary Tract Malignancy, FISH

BRAFT BRAF Mutation Analysis (V600E), Tumor

CTCCC Circulating Tumor Cells (CTC) for Colorectal Cancer by CellSearch, Blood

EGFR2 EGFR Gene, Mutation Analysis, 29 Mutation Panel, Tumor

PRKAF Fibrolamellar Carcinoma, 19p13.1 (PRKACA) Rearrangement, FISH, Tissue

FGFR2 FGFR2 (10q26.1) Rearrangement, FISH, Tissue

GISTP GIST-Targeted Gene Panel by Next-Generation Sequencing, Tumor

H2GEF HER2 Amplification Associated with Gastroesophageal Cancer, FISH, Tissue

HERGM HER2, Gastric/Esophageal, Semi-Quantitative Immunohistochemistry, Manual

HERGN HER2, Gastric/Esophageal, Semi-Quantitative Immunohistochemistry, Manual, No Reflex

KINET Ki-67(MIB-1), Gastrointestinal/Pancreatic Neuroendocrine Tumors, Quantitative Immunohistochemistry, Automated

KIT8 KIT Exon 8, Mutation Analysis

KIT9 KIT Exon 9, Mutation Analysis

KIT11 KIT Exon 11, Mutation Analysis

KIT13 KIT Exon 13, Mutation Analysis

KIT17 KIT Exon 17, Mutation Analysis

KRASC KRAS Mutation Analysis, 7 Mutation Panel, Colorectal

METF MET (7q31), FISH, Tissue

ML1HM MLH1 Hypermethylation Analysis, Tumor

BRMLH MLH1 Hypermethylation and BRAF Mutation Analysis, Tumor

MSIHC Microsatellite Instability (MSI)/Immunohistochemistry (IHC) Profile-Lynch/Hereditary Nonpolyposis Colorectal Cancer (HNPCC) Screen

IHC Mismatch Repair (MMR) Protein Immunohistochemistry Only, Tumor

MSI Microsatellite Instability (MSI), Tumor

RASFP RAS/RAF Targeted Gene Panel by Next-Generation Sequencing, Tumor

Genitourinary

TFE3F Alveolar Soft Part Sarcoma (ASPS)/Renal Cell Carcinoma (RCC), Xp11.23 (TFE3), FISH, Tissue

CTCCP Circulating Tumor Cells (CTC) for Prostate Cancer by CellSearch, Blood

GCTF Germ Cell Tumor (GCT), Isochromosome 12p, FISH, Tissue

H2URF HER2 Amplification Associated with Urothelial Carcinoma, FISH, Tissue

FUROC UroVysion for Detection of Bladder Cancer, Urine

NUT1F NUTM1 (15q14) Rearrangement, FISH, Tissue

PROF Prostate Tumor, FISH, Tissue

TFEFB Renal Cell Carcinoma, 6p21.1 (TFEB) Rearrangement, FISH, Tissue

Gynecology

Endometrial/Uterine Carcinoma

ESTUF Endometrial Stromal Tumors (EST), 7p15 (JAZF1), 6p21.32 (PHF1), 17p13.3 (YWHAE) Rearrangement, FISH, Tissue

ML1HM MLH1 Hypermethylation Analysis, Tumor

Ovarian Carcinoma

XL2 FOXL2 Mutation Analysis, Tumor

Gestational/Trophoblastic Disease/ Molar Pregnancy

POCF Products of Conception (POC) Aneuploidy Detection, FISH, Paraffin-Embedded Tissue

Lower Anal-Genital Tract Carcinoma

HPV6E Human Papillomavirus (HPV) High-Risk E6/E7, RNA In Situ Hybridization

HPVHL Human Papillomavirus (HPV) High/Low Risk, DNA In Situ Hybridization

HPVHR Human Papillomavirus (HPV), High-Risk, DNA In Situ Hybridization

HPVLR Human Papillomavirus (HPV), Low-Risk, DNA In Situ Hybridization

Head and Neck

FGF1F FGFR1 (8p11.2) Amplification, FISH, Tissue

HPVHL Human Papillomavirus (HPV) High/Low Risk, DNA In Situ Hybridization

HPVHR Human Papillomavirus (HPV), High-Risk, DNA In Situ Hybridization

HPVLR Human Papillomavirus (HPV), Low-Risk, DNA In Situ Hybridization

MAMLF MAML2 (11q21) Rearrangement, Mucoepidermoid Carcinoma (MEC), FISH, Tissue

SGTF MYB (6q23) Rearrangement, FISH, Tissue

Melanoma

BRAFB Cell-Free DNA BRAF V600 Test, Blood

BRAFC BRAF Mutation Analysis (V600), Melanoma

KIT11 KIT Exon 11, Mutation Analysis

KIT13 KIT Exon 13, Mutation Analysis

KIT17 KIT Exon 17, Mutation Analysis

MELF Melanoma, FISH, Tissue

MELP Melanoma Targeted Gene Panel by Next-Generation Sequencing, Tumor

UMM3F Uveal Melanoma, Chromosome 3 Monosomy, FISH, Tissue

Neuro-oncology

GLIOF 1p/19q Deletion in Gliomas, FISH, Tissue

BRAFT BRAF Mutation Analysis (V600E), Tumor

CMAPT Chromosomal Microarray, Tumor, Formalin-Fixed Paraffin-Embedded

GCTF Germ Cell Tumor (GCT), Isochromosome 12p, FISH, Tissue

IDH12 IDH12 Isocitrate Dehydrogenase 1 and 2 (IDH1/IDH2) Mutation Analysis, Tumor

MEDF Medulloblastoma, FISH, Tissue

MGMT MGMT Promoter Methylation, Tumor

NONCP Neuro-Oncology Expanded Panel with Rearrangement, Tumor

TERT TERT Promoter Analysis, Tumor

Pulmonary

BRAFT BRAF Mutation Analysis (V600E), Tumor

EGFR2 EGFR Gene, Mutation Analysis, 29 Mutation Panel, Tumor

FALKC ALK on Cytology Specimens, FISH

FGF1F FGFR1 (8p11.2) Amplification, FISH, Tissue

KRASO KRAS Mutation Analysis, 7 Mutation Panel, Other (Non-Colorectal)

LCAF Lung Cancer, ALK (2p23) Rearrangement, FISH, Tissue

EGFR Lung Cancer, EGFR with ALK Reflex, Tumor

LNGPR Lung Cancer-Targeted Gene Panel with Rearrangement, Tumor (mutations and rearrangements)

LUNGPT Lung Cancer-Targeted Gene Panel, Tumor (mutations only)

LUNGR Lung Cancer Rearrangement Testing, Tumor (rearrangements only)

RETF Lung Cancer, RET (10q11) Rearrangement, FISH, Tissue

ROS1F Lung Cancer, ROS1 (6q22) Rearrangement, FISH, Tissue

METF MET (7q31), FISH, Tissue

ONCOLOGY: MOLECULAR DIAGNOSTIC TESTING

Gastrointestinal

APCZ APC Gene, Full Gene Analysis

HCRC Hereditary Colon Cancer Multi-Gene Panel

MSIHC Microsatellite Instability (MSI)/Immunohistochemistry (IHC) Profile-Lynch/Hereditary Nonpolyposis Colorectal Cancer (HNPCC) Screen

LYNCH Lynch Syndrome Panel

MLH1Z MLH1 Gene, Full Gene Analysis

MSH2Z MSH2 Gene, Full Gene Analysis

MSH6Z MSH6 Gene, Full Gene Analysis

MYHZ MUTYH Analysis, Full Gene Analysis

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Gastrointestinal (cont.)

PMS2Z PMS2 Gene, Full Gene Analysis

U1A1V UDP-Glucuronosyl Transferase 1A1 TA Repeat Genotype, UGT1A1

UGTFG UDP-Glucuronosyl Transferase 1A1 (UGT1A1), Full Gene Sequencing

Inherited Endocrine

FMTT Familial Mutation, Targeted Testing

RETZ RET Proto-Oncogene, Full Gene Analysis

SDHP SDHB, SDHC, SDHD Gene Panel

VHLZ VHL Gene, Full Gene Analysis

PRIMARY BODY FLUID TESTS
Tests for disease monitoring or aiding in the diagnosis

Bone and Soft Tissue

FGF23 Fibroblast Growth Factor 23 (FGF23), Plasma

Breast

C2729 Breast Carcinoma-Associated Antigen (CA 27.29), Serum

CA153 Cancer Antigen 15-3 (CA 15-3), Serum

Endocrine

Thyroid Cancer

CATLN Calcitonin, Fine-Needle Aspiration Biopsy (FNAB)-Needle Wash, Lymph Node

CATN Calcitonin, Serum

CEA Carcinoembryonic Antigen (CEA), Serum

TGMS Thyroglobulin Mass Spectrometry, Serum

HTGFN Thyroglobulin, Tumor Marker, Fine-Needle Aspiration (FNA)-Needle Wash, Lymph Node

HTGR Thyroglobulin, Tumor Marker Reflex to LC-MS/MS or Immunoassay

HTG2 Thyroglobulin, Tumor Marker, Serum

Neuroendocrine Tumors

CGAK Chromogranin A, Serum

GAST Gastrin, Serum

GLP Glucagon, Plasma

NSE Neuron-Specific Enolase (NSE), Serum

HPP Pancreatic Polypeptide, Plasma

VIP Vasoactive Intestinal Polypeptide (VIP), Plasma

Pituitary Tumors

ACTH Adrenocorticotropic Hormone (ACTH), Plasma

APGH Alpha-Subunit Pituitary Tumor Marker, Serum

FSH Follicle-Stimulating Hormone (FSH), Serum

HGH Growth Hormone, Serum

LH Luteinizing Hormone (LH), Serum

MCRPL Macroprolactin, Serum

NSE Neuron-Specific Enolase (NSE), Serum

PLPMA Prolactin, Pituitary Macroadenoma, Serum

PRL Prolactin, Serum

Biogenic Amines

CATU Catecholamine Fractionation, Free, 24 Hour, Urine

CATP Catecholamine Fractionation, Free, Plasma

HVA Homovanillic Acid (HVA), 24 Hour, Urine

HVAR Homovanillic Acid (HVA), Random, Urine

HIAA 5-Hydroxyindoleacetic Acid (5-HIAA), 24 Hour, Urine

METAF Metanephrines, Fractionated, 24 Hour, Urine

PMET Metanephrines, Fractionated, Free, Plasma

METAR Metanephrines, Fractionated, Random, Urine

SERU Serotonin, 24 Hour, Urine

SERWB Serotonin, Blood

VH Vanillylmandelic Acid (VMA) and Homovanillic Acid (HVA), Random, Urine

VMA Vanillylmandelic Acid (VMA), 24 Hour, Urine

VMAR Vanillylmandelic Acid (VMA), Random, Urine

Gastrointestinal

L3AFP Alpha-Fetoprotein (AFP) L3% and Total, Hepatocellular Carcinoma Tumor Marker, Serum

AFPPT Alpha-Fetoprotein (AFP), Peritoneal Fluid

AFP Alpha-Fetoprotein (AFP) Tumor Marker, Serum

AMLPC Amylase, Pancreatic Cyst

199PC Carbohydrate Antigen 19-9 (CA 19-9), Pancreatic Cyst Fluid

199PT Carbohydrate Antigen 19-9 (CA 19-9), Peritoneal Fluid

CA19 Carbohydrate Antigen 19-9 (CA 19-9), Serum

CEAPC Carcinoembryonic Antigen (CEA), Pancreatic Cyst Fluid

CEAPT Carcinoembryonic Antigen (CEA), Peritoneal Fluid

CEA Carcinoembryonic Antigen (CEA), Serum

CGAK Chromogranin A, Serum

DCP Des-Gamma-Carboxy Prothrombin (DCP), Serum

FOBT Fecal Occult Blood, Colorectal Cancer Screen, Qualitative, Immunochemical

GAST Gastrin, Serum

GLP Glucagon, Plasma

HIAA 5-Hydroxyindoleacetic Acid (5-HIAA), 24 Hour, Urine

NSE Neuron-Specific Enolase (NSE), Serum

HPP Pancreatic Polypeptide, Plasma

SERU Serotonin, 24 Hour, Urine

SERWB Serotonin, Blood

VIP Vasoactive Intestinal Polypeptide (VIP), Plasma

Genitourinary

AFPSF Alpha-Fetoprotein (AFP), Spinal Fluid

AFP Alpha-Fetoprotein (AFP) Tumor Marker, Serum

BHCG Beta-Human Chorionic Gonadotropin, Quantitative, Serum

BHSH Beta-Human Chorionic Gonadotropin, Quantitative, Spinal Fluid

CEASF Carcinoembryonic Antigen (CEA), Spinal Fluid

PSA Prostate-Specific Antigen (PSA) Diagnostic, Serum

SPSA Prostate-Specific Antigen (PSA) Screen, Serum

PHI11 Prostate Health Index (phi), Serum

PSAFT Prostate-Specific Antigen (PSA), Total and Free, Serum

Gynecology

BHCG Beta-Human Chorionic Gonadotropin, Quantitative, Serum

CA25 Cancer Antigen 125 (CA 125), Serum

HE4 Human Epididymis Protein 4, Serum

INHA Inhibin A, Tumor Marker, Serum

INHAB Inhibin A and B, Tumor Marker, Serum

INHB Inhibin B, Serum

ROMA Ovarian Malignancy Risk Algorithm

Pulmonary

PF199 Carbohydrate Antigen 19-9 (CA 19-9), Pleural Fluid

PFCEA Carcinoembryonic Antigen (CEA), Pleural Fluid

NSE Neuron-Specific Enolase (NSE), Serum

**ADDITIONAL TESTS
(INDICATE TEST CODE AND NAME)**