

TriCore Reference Laboratories' Molecular Diagnostic Laboratory now offers a Targeted Cancer Gene Panel by next generation sequencing (NGS) for blood, bone marrow and solid tissue. This cancer hotspot panel assesses 50 of the most commonly mutated genes in specific cancers that have actionable targeted therapies, or for diagnostic or prognostic purposes.

The assay utilizes the Ion AmpliSeq™ Cancer Hotspot Panel v2 reagents on the Ion Personal Genome Machine® (PGM™) System. The targets are hotspot regions, including approximately 2,850 mutations in the COSMIC Mutations Database. The test will also identify additional mutations within the 207 regions amplified including wide coverage of KRAS, BRAF, and EGFR.

GENES ANALYZED				
ABL1	EGFR	GNAQ	KRAS	PTPN11
AKT1	ERBB2	GNAS	MET	RB1
ALK	ERBB4	HNF1A	MLH1	RET
APC	EZH2	HRAS	MPL	SMAD4
ATM	FBXW7	IDH1	NOTCH1	SMARCB1
BRAF	FGFR1	IDH2	NPM1	SMO
CDH1	FGFR2	JAK2	NRAS	SRC
CDKN2A	FGRF3	JAK3	PDGFRA	STK11
CSF1R	FLT3	KDR	PIK3CA	TP53
CTNNB1	GNA11	KIT	PTEN	VHL

For additional information, please contact TriCore's Molecular Diagnostics Laboratory at 505-938-8684.

For consultation, please contact:

Dr. Mohammad Vasef 505-938-8468 mvasef@salud.unm.edu

Dr. David Czuchlewski 505-938-8467 dczuchlewski@salud.unm.edu

Ordering instructions are on the reverse side.

ORDERING INFORMATION TARGETED CANCER GENE PANEL

TARGETED CANCER GENE PANEL, BLOOD AND BONE MARROW

Test Code.....MDBHOT	Related Documents.....Hematopathology Requisition
CPT Code.....81450 ; G0452-26	Testing Performed.....Friday
Methodology.....Next Generation Sequencing	Reported.....Within 21 days
Test Includes.....MDBHOT Result	

COLLECTION

Specimen	Whole Blood or Bone Marrow
Collection Containers	Lavender-top tube (EDTA)
Collection Amounts	Preferred 4.0 mL Minimum 1.0 mL
Rejection Criteria	Frozen samples and peripheral blood or bone marrow FFPE clot sections are unacceptable.

PROCESSING

Specimen Processing Instructions	CRITICAL: DO NOT CENTRIFUGE. DO NOT OPEN OR SHARE TUBE.
----------------------------------	---

SHIPPING/TRANSPORT AND STORAGE

Stabilities/Storage: (Collection to initiation of testing)	Temperature	Stability
	Ambient	5 day(s)
	Refrigerated	5 day(s)
	Frozen	Unacceptable
Shipping Instructions	Ship ambient and overnight for Monday-Saturday receipt	

TARGETED CANCER GENE PANEL, FRESH OR FFPE TISSUE

Test Code.....MDTHOT	Related Documents.....Solid Tumor Requisition
CPT Code.....81445 ; G0452-26	Testing Performed.....Friday
Methodology.....Next Generation Sequencing	Reported.....Within 21 days
Test Includes.....MDTHOT Result	

ORDERING

Ordering Instructions	Send requisition and specimen to Molecular Diagnostics Department. Include a surgical pathology report.
-----------------------	---

COLLECTION

Specimen	Tissue (formalin-fixed, paraffin-embedded block)
Rejection Criteria	Tissue specimens with no tumor, frozen specimens and specimens fixed/processed in alternative fixatives (alcohol Prefer®) or fixatives containing heavy metals are unacceptable. Bone Marrow FFPE clot sections are unacceptable.

PROCESSING

Specimen Processing Instructions	If the specimen to be tested is a needle biopsy or contains less than 50% tumor, prepare and send 10 unstained 5um slides.
----------------------------------	--

SHIPPING/TRANSPORT AND STORAGE

Stabilities/Storage: (Collection to initiation of testing)	Temperature	Stability
	Ambient	Indefinite
	Refrigerated	Indefinite
	Frozen	Unacceptable
Shipping Instructions	Ship ambient. NOTE: Protect paraffin block from excessive heat. Ship in cooled container during the summer months.	

