



تاریخ : .....

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پیوست : .....

## لیست آزمایشات هماتولوژی بخش مولکولی

توضیحات	نوع نمونه	RNA/DNA	نام تست
کمی (۱۰ml) و کیفی	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	BCR-ABL/ t(9;22)p210
کمی (۱۰ml) و کیفی Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	BCR-ABL/ t(9;22)p190
و کیفی Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	AML1-ETO/t(8;21)
کمی (فقط B.M) و کیفی Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	PML-RARA/ t(15;17)
Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	E2A-PBX1 /t(1;19)
Blood only in involvement	Blood & Bone marrow (only EDTA anti-coagulated specimens)	RNA	MLL-AF4 /t(4;11)
Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	TEL-AML1 / t(12;21)
Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	CBFB-MYH1/ Inv16
Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	PLZF-RARA/ t(11;17)
Blood only in involvement	Blood & Bone marrow (only EDTA anti-coagulated specimens)	RNA	FIP1L1-PDGFR
	Blood or Bone marrow (only EDTA anti-coagulated specimens)	DNA	Jak2
Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	DNA	FLT3 Mutation (FLT-ITD)
حجم نمونه خون (۱۰ml)	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	Gleevec / Imatinib Resistance (T315I)
Blood only in involvement	Blood or Bone marrow (only EDTA anti-coagulated specimens)	RNA	NPM1
	Blood (only EDTA anti-coagulated specimens)	DNA	Factor V Leiden
	Blood (only EDTA anti-coagulated specimens)	DNA	Warfarin genotyping
	Blood (only EDTA anti-coagulated specimens)	DNA	MTHFR gene mutation

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	Blood (only EDTA anti-coagulated specimens)	DNA	Prothrombin G20210A Mutation
Blood only in involvement	Blood & Bone marrow (EDTA anti-coagulated & Paraffin embedded tissue blocks)	DNA	IgH gene rearrangement
Blood only in involvement	Blood & Bone marrow (EDTA anti-coagulated & Paraffin embedded tissue blocks)	DNA	TCR $\gamma$ gene rearrangement
Blood only in involvement	Blood & Bone marrow (EDTA anti-coagulated & Paraffin embedded tissue blocks)	DNA	TCR $\delta$ gene rearrangement
Blood only in involvement	Blood & Bone marrow (only EDTA anti-coagulated specimens)	DNA	IgHV gene mutation
Blood only in involvement	Blood & Bone marrow (EDTA anti-coagulated & Paraffin embedded tissue blocks)	DNA	Ig $\kappa$ gene rearrangement
Blood only in involvement	Blood & Bone marrow (EDTA anti-coagulated & Paraffin embedded tissue blocks)	DNA	Cyclin D1/BCL1 /t(11;14)
Blood only in involvement	Blood & Bone marrow (EDTA anti-coagulated & Paraffin embedded tissue blocks)	DNA	IGH/BCL2 / t(14;18)
	Fresh Frozen Tissue, Paraffin-Embedded Tissue Blocks	RNA	ERBB2-HER2-Neu
کمی B.M only in involvement (20%)	Bone marrow, Fresh Frozen Tissue, Paraffin-Embedded Tissue Blocks	DNA	N-myc gene Amplification
	Fresh Frozen Tissue, Paraffin-Embedded Tissue Blocks	DNA	K-ras mutation
B.M only in involvement	Bone marrow, Fresh Frozen Tissue, Paraffin-Embedded Tissue Blocks	RNA	t(11;22) EWS-FL11
	Fresh Frozen Tissue, Paraffin-Embedded Tissue Blocks	RNA	t(2;13) PAX3-FKHR
	Fresh Frozen Tissue, Paraffin-Embedded Tissue Blocks	RNA	t(1;13)PAX7-FKHR
	Fresh Frozen Tissue, Paraffin-Embedded Tissue Blocks	RNA	t(X;18)(SYT;SSX)

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### لیست آزمایشات ویروسی بخش مولکولی

نوع نمونه	RNA/DNA	نام تست
Whole blood, Serum, Plasma	Viral DNA	HBV
Whole blood, Plasma	Viral RNA	HCV کیفی
Plasma	Viral RNA	HCV genotyping
Plasma	Viral RNA	HCV quantitative
Amniotic fluid, Whole blood, Serum, Respiratory Samples Plasma, Saliva, CSF & Urine	Viral DNA	CMV
Whole blood, Serum, Plasma, CSF, Respiratory Sample, Paraffin embedded tissue block, Saliva	Viral DNA	EBV
Whole blood, Serum, Plasma, CSF, Paraffin embedded tissue block, Skin Lesions	Viral DNA	HSV-1
Whole blood, Serum, Plasma, CSF, Paraffin embedded tissue block, Skin & Genital Lesions	Viral DNA	HSV-2
Whole blood, CSF, Skin vesicle	Viral DNA	VZV
Whole blood, CSF, Respiratory samples	Viral DNA	HHV6
Whole blood, CSF, Amniotic fluid	Viral RNA	Rubella
Whole blood, CSF, Amniotic fluid, Throat Swabs, Urine, Skin & Conjunctiva ,rectal swab,stool	Viral RNA	Enteroviruses
Whole blood, CSF, Synovial Fluid, Bone Marrow, Amniotic Fluid	Viral DNA	Parvovirus B19
Genital & Skin warts, Paraffin embedded tissue block	Viral DNA	HPV-16
Genital & Skin warts, Paraffin embedded tissue block	Viral DNA	HPV-18
CSF	Viral RNA	LCMV
Plasma	Viral RNA	Mumps
Respiratory samples	Viral RNA	Influenza type A
Respiratory samples	Viral RNA	Influenza type B
Respiratory Samples	Viral RNA	Parainfluenza type 1
Respiratory Samples	Viral RNA	Parainfluenza type 2
Respiratory Samples	Viral RNA	Parainfluenza type 3
Respiratory Samples	Viral RNA	Parainfluenza type 4
Respiratory Samples	Viral RNA	Human Respiratory Syncytial Virus A
Respiratory samples	Viral RNA	Human Respiratory Syncytial Virus B
Respiratory samples	Viral RNA	Human Coronavirus OC43
Respiratory Samples	Viral RNA	Human Coronavirus 229E
Respiratory Samples	Viral RNA	Human metapneumoviruses
Respiratory Samples	Viral RNA	Human enteroviruses
Respiratory Samples	Viral DNA	Adenoviruses

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### لیست آزمایشات باکتریال بخش مولکولی

نوع نمونه	RNA/DNA	نام تست
Respiratory samples	DNA	Chlamydomphila pneumoniae
Respiratory samples	DNA	Mycoplasma pneumoniae
Respiratory Samples	DNA	Legionella pneumophila
Whole Blood , CSF	DNA	Neisseria Meningitidis ABC
Mucous membrane scrapes (Washes), Stool , Milk, Whole Blood , CSF	DNA	Listeria Monocytogenes
Whole Blood, Synovial Fluid	RNA	Borrelia Burgdorferi
Cervical or Urethral swabs, CSF, Whole Blood	DNA	Candida Albicans
CSF, Respiratory Samples, Sputum, Synovial Fluid, Pleural fluid, Paraffin embedded tissue block, etc.	DNA	Mycobacterium tuberculosis
Whole blood, CSF, Bone Marrow, urine, Synovial Fluid پلاسما پذیرفته نیست	DNA	Brucella species
Urine, Genitourinary Samples, Conjunctiva & Skin Lesions	DNA	Chlamydia trachomatis
Urine, Genitourinary Samples, Conjunctiva & Skin Lesions	DNA	Mycoplasma genitalium
Genitourinary Samples , Throat Swabs, Conjunctiva & Synovial Fluid	DNA	Neisseria gonorrhoeae
Sputum, nasopharyngeal aspirates or swabs & other Respiratory Samples	DNA	Bordetella pertussis
Genitourinary Samples	DNA	TereponemaPalidum
Sputum, nasopharyngeal aspirates or swabs & other Respiratory Samples	DNA	Bordetella parapertussis
Whole blood, Serum, Amniotic fluid, CSF & Paraffin embedded tissue block	DNA	Toxoplasma gondii
Bronchial lavage, sputum, pharyngeal swab	DNA	Staphylococcus aureus
ماکروئید ، بتا لاکتام ، تتراسیکلین ، کوئینولون ، آمینوگلیکوزید، ونکومايسين		انتي بيوتیک های مقاوم استافیلوکوک

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Specimen	RNA/DNA	Test
Whole blood, Serum, Plasma کمی: پلاسما (نمونه CBC) کیفی: سرم (نمونه لخته)	Viral DNA	HBV
کیفی، کمی و ژنوتایپینگ : پلاسما ( نمونه CBC )	Viral RNA	HCV
Amniotic fluid, Whole blood, Serum, Respiratory Samples Plasma, Saliva, CSF & Urine کمی: پلاسما (نمونه CBC) کیفی : Buffy coat	Viral DNA	CMV
Whole blood, Serum, Plasma, CSF, Respiratory Sample, Paraffin embedded tissue block, Saliva	Viral DNA	EBV
Whole blood, Serum, Plasma, CSF, Paraffin embedded tissue block, Skin Lesions	Viral DNA	HSV-1
Whole blood, Serum, Plasma, CSF, Paraffin embedded tissue block, Skin & Genital Lesions	Viral DNA	HSV-2
Whole blood, CSF, Skin vesicle	Viral DNA	VZV
Whole blood, CSF, Respiratory samples	Viral DNA	HHV6
Whole blood, CSF, Amniotic fluid	Viral RNA	Rubella
Whole blood, CSF, Amniotic fluid, Throat Swabs, Urine, Skin & Conjunctiva ,rectal swab,stool	Viral RNA	Enteroviruses
Whole blood, CSF, Synovial Fluid, Bone Marrow, Amniotic Fluid	Viral DNA	Parvovirus B19
Genital & Skin warts, Paraffin embedded tissue block	Viral DNA	HPV-16
Genital & Skin warts, Paraffin embedded tissue block	Viral DNA	HPV-18
CSF	Viral RNA	LCMV
Respiratory samples	Viral RNA	Influenza type A
Respiratory samples	Viral RNA	Influenza type B
Respiratory Samples	Viral RNA	Parainfluenza type 1
Respiratory Samples	Viral RNA	Parainfluenza type 2
Respiratory Samples	Viral RNA	Parainfluenza type 3
Respiratory Samples	Viral RNA	Parainfluenza type 4
Respiratory Samples	Viral RNA	Human Respiratory Syncytial Virus A
Respiratory samples	Viral RNA	Human Respiratory Syncytial Virus B
Respiratory samples	Viral RNA	Human Coronavirus OC43
Respiratory samples	Viral RNA	Human Coronavirus 229E
Respiratory samples	Viral RNA	Human metapneumoviruses
Respiratory samples	Viral RNA	Human enteroviruses
Respiratory samples	Viral DNA	Adenoviruses
CSF, Respiratory Samples, Sputum, Synovial Fluid, Pleural fluid, Paraffin embedded tissue block, etc.	DNA	Mycobacterium tuberculosis
Whole blood, CSF, Bone Marrow, urine, Synovial Fluid	DNA	Brucella species
Urine, Genitourinary Samples, Conjunctiva & Skin Lesions	DNA	Chlamydia trachomatis
Urine, Genitourinary Samples, Conjunctiva & Skin Lesions	DNA	Mycoplasma genitalium
Genitourinary Samples , Throat Swabs, Conjunctiva & Synovial Fluid	DNA	Neisseria gonorrhoeae

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<b>Sputum, nasopharyngeal aspirates or swabs &amp; other Respiratory Samples</b>	<b>DNA</b>	<b>Bordetella pertussis</b>
<b>Genitourinary Samples</b>	<b>DNA</b>	<b>TereponemaPalidum</b>
<b>Sputum, nasopharyngeal aspirates or swabs &amp; other Respiratory Samples</b>	<b>DNA</b>	<b>Bordetellaparapertussis</b>
<b>Whole blood, Serum, Amniotic fluid, CSF &amp; Paraffin embedded tissue block</b>	<b>DNA</b>	<b>Toxoplasma gondii</b>
<b>Respiratory samples</b>	<b>DNA</b>	<b>Chlamyphilapneumoniae</b>
<b>Respiratory samples</b>	<b>DNA</b>	<b>Mycoplasma pneumoniae</b>
<b>Respiratory samples</b>	<b>DNA</b>	<b>Legionella pneumophila</b>
<b>Respiratory samples</b>	<b>DNA</b>	<b>Bordetella pertussis</b>
<b>Respiratory samples</b>	<b>DNA</b>	<b>Bordetellaparapertussis</b>
<b>Respiratory samples</b>	<b>DNA</b>	<b>Mycobacterium tuberculosis</b>
<b>Whole Blood , CSF</b>	<b>DNA</b>	<b>Neisseria Meningitidis ABC</b>
<b>Mucous membrane scrapes (Washes), Stool , Milk,Whole Blood , CSF</b>	<b>DNA</b>	<b>Listeria Monocytogenes</b>
<b>Whole Blood, Synovial Fluid</b>	<b>RNA</b>	<b>Borrelia Burgdorferi</b>
<b>Cervical or Urethral swabs, CSF, Whole Blood</b>	<b>DNA</b>	<b>Candida Albicans</b>
<b>Whole Blood , CSF</b>	<b>DNA</b>	<b>Neisseria Meningitidis ABC</b>
<b>Mucous membrane scrapes (Washes), Stool , Milk ,Whole Blood , CSF</b>	<b>DNA</b>	<b>Listeria Monocytogenes</b>
<b>Whole Blood, Synovial Fluid</b>	<b>DNA</b>	<b>Borrelia Burgdorferi</b>
<b>Cervical or Urethral swabs, CSF, Whole Blood</b>	<b>DNA</b>	<b>Candida Albicans</b>

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