

Fact Sheet

Main laboratory abnormalities associated with COVID-19

Laboratory tests supporting clinicians with COVID-19

Although RT-PCR is the recommended testing for diagnosis of a SARS-CoV-2 infection, there are numerous other diagnostic parameters that show abnormal laboratory results in COVID-19 patients. In addition to hematologic parameters, like lymphocyte counts, especially CRP testing and a series of other clinical chemistry parameters, as well as D-Dimer testing play a role in monitoring and staging of COVID-19 patients.^{1,2}

Product Line	Parameter	Lab abnormalities
Hematology	Neutrophile count	↑
	Lymphocyte count	↓
	Erythrocyte sedimentation rate	↑
Clinical Chemistry	C-reactive protein	↑
	Albumin	↓*
	Liver enzymes (GOT (AST), GPT (ALT), GGT, ALP, Bilirubin)	↑*
	Lactate dehydrogenase (LDH)	↑*
	Kidney parameters (Creatinine, Urea/BUN)	↑*
	Lactate	↑*
Cardiac Marker	CK-MB	↑*
	Myoglobin	↑*
	Troponin	↑*
Coagulation	D-dimer	↑*
	Prothrombin time (sec)	↑*

* in severe cases, mainly

¹ Diagnosis and Treatment Protocol for Novel Coronavirus Pneumonia (Trial Version 7); Released by National Health Commission & State Administration of Traditional Chinese Medicine; March 3, 2020

² Lippi G, Plebani M. Laboratory abnormalities in patients with COVID-2019 infection. Clin Chem Lab Med 2020 Feb 24. doi: 10.1515/cclm-2020-0198

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Suitable HUMAN products in the context of COVID-19



Clinical Chemistry		REF - Multipurpose Reagents	REF - System Reagents
Inflammation	CRP	11241	11241300, 11241600
Liver Panel	ALBUMIN liquicolor	10560, 156004	10560300, 10560600
	Gamma-GT	12213, 12013, 12023, 12033	12023300, 12023600
	GPT (ALAT) IFCC mod. liquiUV	12212, 12012, 12022, 12032	12022300, 12022600
	GOT (ASAT) IFCC mod. liquiUV	12211, 12011, 12021, 12031	12021300, 12021600
	BILIRUBIN liquicolor	10012	
	BILIRUBIN DIRECT/TOTAL liquicolor	10740	
	auto-BILIRUBIN-T liquicolor	10742	10742300, 10742600
Kidney Panel	CREATININE liquicolor	10051	
	auto-CREATININE liquicolor	10052	10052300, 10052600
	CREATININE (enzym) liquicolor	10053	10053300, 10053600
	UREA liquicolor	10505, 10506, 10507	
	UREA liquiUV	10521	10521300, 10521600
Cardiac Panel	LDH SCE mod. liquiUV	12214, 12014, 12024	12014300, 12014600
	CK-MB	12118	12118600

Further HUMAN Products		REF
Rapid Tests	HumaTex CRP	40043
Hematology	HumaCount 5D	16450
	HumaCount 30 ^{TS}	16420/30
	HumaCount 80 ^{TS}	16420/80
	HumaSRate 24 ^{PT}	15024
Hemostasis	HEMOSTAT D-Dimer	36002
	HEMOSTAT aPTT-EL	33002, 33012, 33013
	HEMOSTAT Thromboplastin liquid	31012
	HEMOSTAT Thromboplastin-SI	31002, 31003
	HumaClot Pro	15800



HumaCount 5D



HumaClot Pro

Human

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