



iCHROMA III

IMMUNOLOGY CATEGORY

FAST, SIMPLE, ACCURATE

High Throughput Fluorescence Immuno-analyzer

- Suitable for the clinical laboratories
- No need thermal chamber
- 12 tests available at once
- Temperature control (25 -35 °C)
- High throughput results - up to 120 tests in an hour
- Compact desktop instrument
- No consumables
- 7" touch screen LCD
- LIS/HIS Connectivity
- Save ID chip information to analyzer



MUREX
DIAGNOSTIC PRODUCTS SPECIALISTS

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iCHROMA III PARAMETERS

Category	Item	ichroma™ II	ichroma™ III	Sample type	Working range
Cardiac	Tn-I	●	●	S/P	0,1-50,0 ng/mL
	Tn-I Plus	●	●	WB/S/P	0,01-15 ng/mL
	CK-MB	●	●	WB/S/P	3-100 ng/mL
	D-Dimer	●	●	WB/P	50-10,000 ng/mL
	NT-proBNP	●	●	WB/S/P	10-30,000 pg/mL
	Myoglobin	●	●	WB/S/P	5-500 ng/mL
	hsCRP	●	●	WB/S/P	0,1-10,0 mg/L
	Cardiac Triple	●	●	WB/S/P	Tn-I 0,01-15 ng/mL CK-MB 3-100 ng/mL Myoglobin 5-500 ng/mL
	ST2	●	●	WB/S/P	3,1-200 ng/mL
	Cancer	PSA	●	●	S/P/WB
PSA Plus		●	●	WB/S/P	0,07-50 ng/mL
AFP		●	●	WB/S/P	5-350 ng/mL
AFP Plus		●	●	WB/S/P	0,5-350 ng/mL
CEA		●	●	S/P	1-500 ng/mL
CEA Plus		●	●	S/P	0,5-200 ng/mL
iFOB Neo		●	●	Feces	25-1,000 ng/mL
Diabetes	HbA1c	●	●	WB	(NGSP) 4-15 %
	Microalbumin	●	●	Urine	2-300 mg/L
	Cystatin C	●	●	S/P	0,1-7,5 mg/L
Hormone	TSH	●	●	S/P	0,1-100,0 µIU/mL
	TSH Plus	●	●	WB/S/P	0,1-50,0 µIU/mL
	T3	●	●	S/P	0,77-7,70 nmol/L
	T4	●	●	S/P	10,23-300,00 nmol/L
	FSH	●	●	S/P	1-100 mIU/mL
	Progesterone	●	●	S/P	4,45-127,20 nmol/L
	β-HCG *	●	●	WB/S/P	5-50,000 mIU/mL
	β-HCG Plus *	●	●	WB/S/P	2-5,000 mIU/mL
	LH	●	●	S/P	1-100 mIU/mL
	PRL	●	●	S/P	1-100 ng/mL
	Testosterone	●	●	S/P	1-10 ng/mL
	Cortisol	●	●	WB/S/P	80-800 nmol/L
AMH	●	●	S/P	0,02-10 ng/mL	
Infection	COVID-19 Ag	●	●	Nasopharyngeal swab	qualitative
	COVID-19 Ab	●	●	WB/S/P	qualitative
	COVID-19/Flu Ag Combo	●	●	Nasopharyngeal swab	qualitative
	CRP	●	●	WB/S/P	2,5-300,0 mg/L
	PCT	●	●	WB/S/P	0,1-100,0 ng/mL
	PCT Plus	●	●	WB/S/P	0,02-50 ng/mL
	ASO	●	●	S/P	25-800 IU/mL
	HBsAg *	●	●	WB/S/P	qualitative (0-300 COI)
	Anti-HBs *	●	●	WB/S/P	0-500 mIU/mL
	Anti-HCV *	●	●	WB/S/P	qualitative (0-300 COI)
	ROTA	●	●	Feces	qualitative (0-200 COI)
	NORO	●	●	Feces	qualitative (0-200 COI)
	Rota/Adeno	●	●	Feces	qualitative (0-200 COI)
	Dengue IgG/IgM	●	●	WB/S/P	qualitative (0-200 COI)
	Dengue NS1 Ag	●	●	WB/S/P	qualitative (0-200 COI)
	Influenza A+B	●	●	Nasopharyngeal swab/ Nasal aspirate	FluA: 1,4 x 10 ³ pfu/mL FluB: 0,5 TCID ₅₀ /mL
	RSV	●	●	Nasopharyngeal swab/ Nasal aspirate	qualitative
IL-6	●	●	WB/S/P	2 - 2,500 pg/mL	
Autoimmune	RF IgM	●	●	WB/S/P	8-200 IU/mL
	Anti-CCP Plus	●	●	WB/S/P	3,5-300 U/mL
	Total IgE	●	●	WB/S/P	1,00-1,000 IU/mL
Others	Ferritin	●	●**	S/P	10-1,000 ng/mL
	Vitamin D	●	●	S/P	8-70 ng/mL
	Calprotectin	●	●	Feces	10-1,000 mg/kg
	H.pylori SA	●	●	Feces	qualitative

* Ongoing registration

** Additional thermal chamber is needed



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ichroma™ Long COVID solution

PASC (Post-acute sequelae of SARS-CoV-2 infection)

Don't let the virus remain in our daily life
Eliminate uncertainty within minutes

If children complain of fatigue, depression, shortness of breath, headache, or loss of appetite even after 12 weeks of suffering from COVID-19, or there is a noticeable decrease in academic ability and physical strength, suspect the 'Long COVID'.



In July 2022, more than 65% of children aged 5-11 infected with SARS-CoV-2



25.24% of children COVID-19 patients experience long COVID symptoms such as extreme fatigue, cough, shortness of breath, cognitive impairment, sleep disturbance, and mood disturbance. ⁽¹⁾



Children have difficulty expressing symptoms themselves. Prolonged exposure to Long COVID may lead to severe sequelae, and multisystem inflammatory syndrome (MIS-C)

Cause of the Long COVID ⁽²⁾



Autoimmune response



Persistent virus



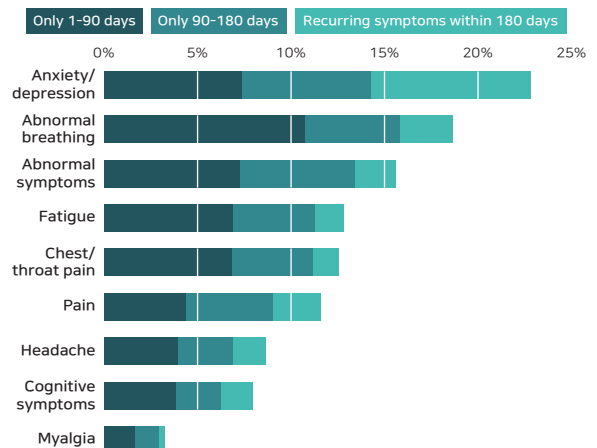
Organ damage



Microclots

- ✓ Dysfunction of virus-infected tissues/organs, including lungs
- ✓ Multiple inflammations due to immunomodulatory dysfunction
- ✓ Hypercoagulation/blood vessel damage, and ischemia caused by thrombosis
- ✓ Dysregulation of the renin-angiotensin system

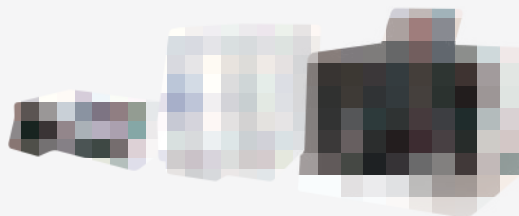
Long COVID symptoms lasting 180 days after infection ⁽³⁾



Get the answer of your Long COVID symptom

Boditech Med's 'Long COVID test parameters' provides several quantitative results right on site to assist clinicians in diagnosing a patient's condition.

PASC (Post-acute sequelae of SARS-CoV-2 infection) cause various symptoms and conditions; it is difficult to diagnose and decide on treatment with a single test. Therefore, the guidelines for managing the PASC in each country recommend the identification of **blood markers as a basic test** to make appropriate treatment.



High-sensitive Immunofluorescence analyzer ichroma™ II, ichroma™ III, ichroma™-50

Compact and diverse devices according to the test demand

Long COVID test parameters

Long COVID	Item	Sample type	Sample volume	Detection range	Test time (min)	Cat#
Hyperinflammation	IL-6	WB/S/P	35 µL	2-2,500 pg/mL	12	CFPC-116
	PCT	WB/S/P	150 µL	0.2-100 ng/mL	12	CFPC-23-1
	CRP	WB/S/P	10 µL	2.5-300 mg/L	3	i-CHROMA CRP-25
Coagulopathy	D-Dimer	S/P	10 µL	50-10,000 ng/mL	12	CFPC-25
Myocyte injury	CK-MB	WB/S/P	35 µL	3-100 ng/mL	12	CFPC-33
	Myoglobin	WB/S/P	10 µL	5-500 ng/mL	12	CFPC-37
	Tn-I Plus	WB/S/P	50 µL	0.01-15.00 ng/mL	12	CFPC-65
Cardiac Fibrosis	NT-proBNP	WB/S/P	10 µL	10-30,000 pg/mL	12	CFPC-77
	ST2	WB/S/P	75 µL	3.1-200 ng/mL	12	CFPC-100
Thyroid function	TSH	S/P	10 µL	0.09-100 µIU/mL	12	CFPC-22
	T3	S/P	75 µL	0.77-7.70 nmol/L	16	CFPC-44
	T4	S/P	75 µL	10.23-300.00 nmol/L	16	CFPC-26
Auto immune	Anti-CCP Plus	WB/S/P	5 µL	3.5-300 U/mL	12	CFPC-97
	Total IgE	WB/S/P	100 µL/50 µL/ 50 µL	1-1,000 IU/mL	12	CFPC-91
Diabetes	HbA1c	WB	5 µL	4-15% (NGSP)	12	CFPC-38
Necrosis/Apoptosis	Ferritin	S/P	30 µL	10-1,000 ng/mL	10	CFPC-32
Immunity	Vitamin D Neo	WB/S/P	30 µL	5-100 ng/mL	12	CFPC-133

(1) Lopez-Leon S, et al., Long-COVID in children and adolescents: a systematic review and meta-analyses (2022).

(2) Proal AD, et al. Long COVID or Post-acute Sequelae of COVID-19 (PASC): An Overview of Biological Factors That May Contribute to Persistent Symptoms (2121).

(3) Taquet M, et al., Incidence, co-occurrence, and evolution of long-COVID features: A 6-month retrospective cohort study of 273,618 survivors of COVID-19 (2021).