

POC diagnostics using our BIOspeed Analyzer

Test quickly, early and on site

The need to make diagnoses quickly, early and, if possible, at the point of action - the so-called "**point of care**" (POC) - became apparent early in the history of medicine. Decentralized, near-patient laboratory diagnostics originally emerged in the hospital in lifethreatening emergency situations. It was developed due to the need for rapid decision criteria. In the meantime, the advantages are used in the outpatient area, the emergency room, in ambulances, in doctors' offices or pharmacies.



POCT has established itself as a helpful, additional tool for patient care without replacing conventional laboratory diagnostics.



Advantages of immediate diagnostics close to the patient:

- Reliable results in laboratory diagnostic quality by *Time-Resolved Fluorescence (TRF) immunoassay*
- Short turnaround time between test request and receipt of results
- Reduced waiting times for patients
- Improvement and acceleration of organizational processes
- Improving the quality of care for the patient

Parameters of the POC BIOspeed Single/Multi Analyzer test palette:

- Cardiac markers: cTnl | NT-proBNP | D-dimer | CK-MB | Myoglobin
- Diabetes markers: HbA1c
- Inflammatory markers: PCT | IL-6 | Ferritin | hsCRP & CRP | SAA
- Vitamin diagnostics: 25-OH-VD
- Sex hormones: beta-HCG | PRL | PROG | LH | AMH | FSH
- Thyroid hormones: T3 | T4 | FT3 | FT4 | TSH

The test range is constantly being extended.

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Technical specifications of the BIOspeed Immunoassay Analyzer				
Measurement principle	Time-resolved Fluorescence (TRF) Immunoassay			
Sample material	Whole blood - serum - plasma - capillary blood - urine - stool - nasal swab - deep sputum			
Dimensions Single / Multi	BIOspeed Single 245 × 270 × 160 mm / BIOspeed Multi 300 x 220 x 148 mm			
Weight Single / Multi	BIOspeed Single 2 kg / BIOspeed Multi 3 kg			
Voltage	AC 220 V			
Temperature / Humidity	+5 °C bis +40 °C / 10-80 %			
Storage	50.000 Results			
Speed	100 - 200 T/h (10 s per measurement)			
System	Android			
Display	8-Inch-colordisplay with touch screen			
Test coding	QR code for unique identification			
Interfaces / Communication protocol	Serial Port, USB, WLAN / TCP,UDP			
Data output / printer	LIS (export as CSV file) / built-in thermal printer			
Location conditions	Dry, clean, flat, protected from sunlight, without mechanical vibration, without electromagnetic interference.			

Independent quality controls are available on request for the individual parameters.

- ✓ Results after 3 15 minutes in standard mode
- \checkmark The relative deviation of the test kit accuracy is within ±15 %.
- \checkmark Precision of tests (within-run and between-run): CV <15 %
- ✓ Very high sensitivity
- ✓ Self-calibration
- \checkmark High flexibility and easy to use
- ✓ Wide range of tests
- ✓ Ready-to-use sample preparation kits
- ✓ Test kits shelf life 24 months, storage temperature 2 30 °C
- ✓ LIS/HIS connection
- \checkmark External quality controls available for each parameter
- \checkmark Low maintenance requirements



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All benefits at a glance



Parameter	Measurement range	Sample material	Sample quantity	EBM	GOÄ
Inflammation markers					
Procalcitonin (PCT)	0.1 - 100 ng/mL	WB/S/P	50 µL	#32459 9.60 €*	#4062 27.98 €*
Ferritin	5 - 500 ng/mL	WB/S/P	75 µL	#32325 4.20 €*	#3742 14.57 €*
C-reactive protein (hsCRP+CRP)	0.5 - 200 mg/L	WB/S/P	5 µL	#32128 1.15 € #32460 4.90 €*	#3741 11.66 €*
Interleukin 6 (IL-6)	10 - 10000 pg/mL	WB/S/P	100 µL	n.a.	n.a.
Serum Amyloid-A (SAA)	1 - 300 mg/L	WB/S/P	5 µL	#32455 8.90 €*	#3572 16.76 €*
Cardiac markers					
Troponin I (cTnl)	0.1 - 40 ng/mL	WB/S/P	75 µL	#32150 11.66 €*	A3732 an. #3741 11.66 €*
N-terminal pro-B-type natriuretic peptide (NT-proBNP)	100 - 35000 pg/mL	WB/S/P	30 µL	#32097 19.40 €*	#4062 27.98 €
CK-MB	0.3 - 100 ng/mL	WB/S/P	75 µL	#32092 1.15 €*	#3788 11.66 €
Myoglobin	5 - 500 ng/mL	WB/S/P	75 µL	#32450 10.80 €*	#3756 11.66 €*
D-Dimer	0.1 - 10 mg/L	WB/P	10 µL	#32027 15.30 €*	A3732 an. #3741 11.66 €*
Sex hormones					
Human β-choriongonadotropin (β-hCG)	5 - 200000 mIU/mL	WB/S/P	10 µL	#32352 6.10 €*	#4024 14.57 €*
LH	1 - 100 mIU/mL	WB/S/P	75 µL	#32354 4.90 €*	#4026 14.57 €*
AMH	0.1 - 16 ng/mL	WB/S/P	75 µL	#32361 4.50 €*	#4033 14.57 €*
FSH	1 - 100 mIU/mL	WB/S/P	75 µL	#32353 4.50 €*	#4021 14.57 €*
Prolaktin (PRL)	1 - 200 ng/mL	WB/S/P	75 µL	#32355 4.60 €*	#4041 23.46 €*
Progesteron (PROG)	0.5 - 60 ng/mL	S/P	100 µL	#32357 3.80 €*	#4040 23.46 €*
Diabetes					
Hemoglobin A1c (HbA1c)	2 - 14 %	WB	5 µL	#32094 4.00 €*	#3561 11.66 €*
Vitamin D					
25-hydroxy-vitamin-D (25-OH-VD)	5.0 - 100.0 ng/ml	WB/S/P	10 µL	#32413 18.40 €*	#4138 27.98 €*
Thyroid hormones					
Thyroxine 3 (T3)	0.61 - 9.22 nmol/L	WB/S/P	75 µL	#32320 3.70 €*	#4023.H4 14.57 €*
Thyroxine 4 (T4)	12.5 - 300 nmol/L	WB/S/P	S/P: 75 μL VB: 150 μL	#32320 3.70 €*	#4023.H4 14.57 €*
Free trijodthyronine (fT3)	0.40 - 50.00 pmol/L	WB/S/P	75 µL	#32320 3.70 €*	#4023.H4 14.57 €*
Free tetrajodthyronine (fT4)	1.00 - 100 pmol/L	WB/S/P	S/P: 75 μL VB: 150 μL	#32320 3.70 €*	#4023.H4 14.57 €*
Thyreoidea-stimulierendes Hormon (TSH)	0.1 - 100 mIU/L	WB/S/P	75 µL	#32101 3.00 €*	#4030 14.57 €*

Table Notes:

only with laboratory accreditation (exclusion of the ability to calculate the flat rate for specialist primary care/naturopaths). These are recommendations. The information is without guarantee. In certain cases, services are not billable alongside another, we ask you to take this into account. Naturopaths can bill according to paragraph 12.15 (up to 10.50 €) or 12.7 (up to 18.00 €) and 26.1 (up to 3.60 €) according to GebüH.



The POC BIOspeed Analyzer is also available as a

multichannel device:

- Evaluates up to 6 patient samples at a time
- For example, 6 different parameters of a patient can be evaluated

at the same time or 6 patient samples from **different** patients can be evaluated

• Time saving due to multiple evaluation





Request a trial order now at https://www.biomed.de/en/contact/

Test our "Speedy" without obligation:

- Test our BIOspeed Analyzer on your own premises for up to two weeks without any obligation.
- For the test phase you get **50% discount** on your desired five parameters. You can order half kits and on request also single test cassettes.
- Choose between online or on-site training
- We offer you telephone and personal product support during the test phase

Watch "Speedy" in action:

https://www.biomed.de/en/products/point-of-care-poc-diagnostic/poc-analyzer-eng/

For even more effective and efficient use of the BIOspeed Analyzer, we recommend our instrument-independent accessories for laboratory use:

- Fully autoclavable micropipettes incl. pipette tips and pipette stands.
- Drying bath / heating block
- User-friendly centrifuges

All information about accessories can be found on our website at:

https://https://www.biomed.de/en/products/laboratory-supplies/

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