



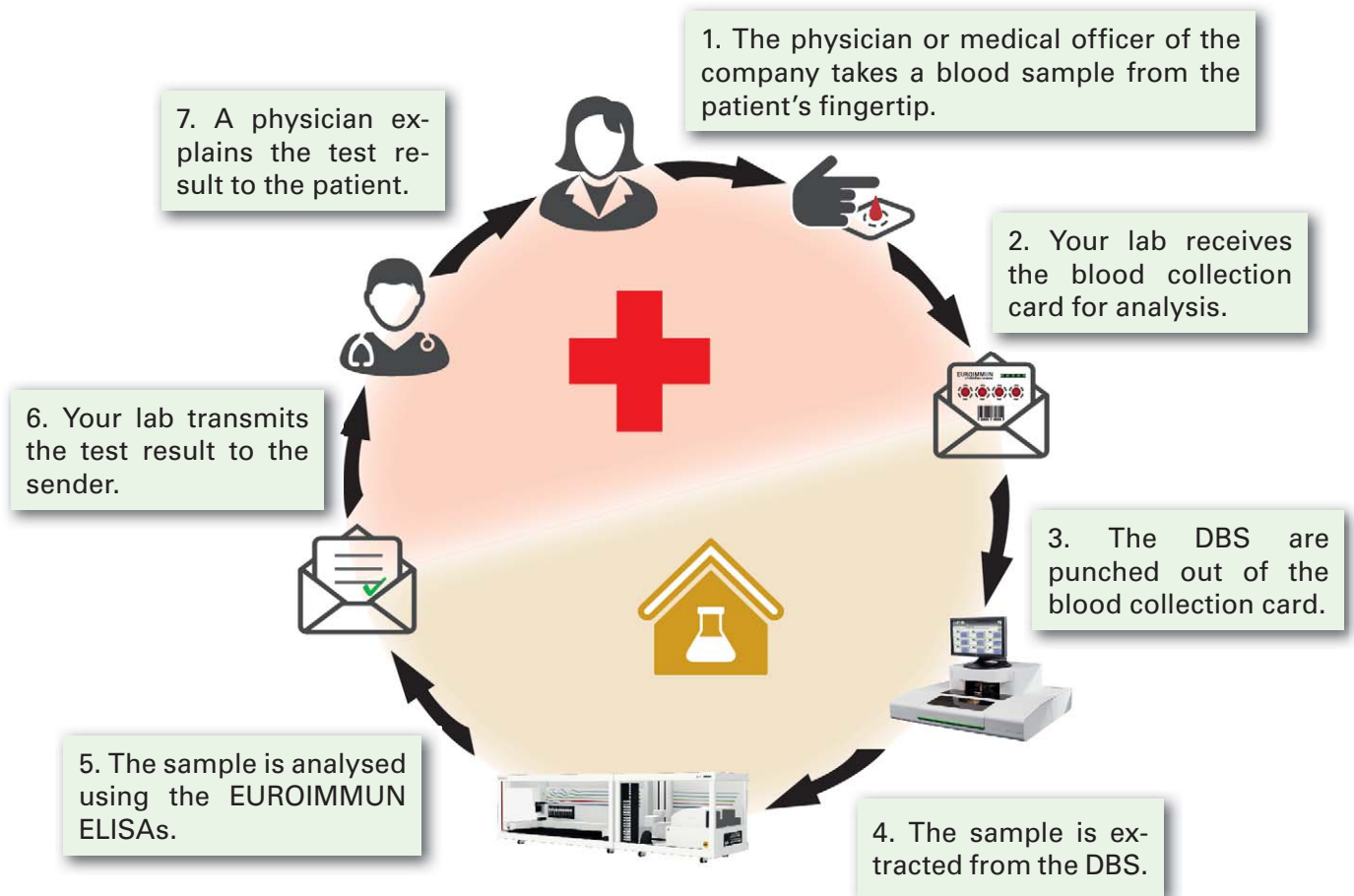
# COVID-19 diagnostics with dried capillary blood



- Convenient sample collection for the CE-marked EUROIMMUN ELISAs for detection of anti-SARS-CoV-2 antibodies (IgG)
- Smooth integration into existing processes and automation solutions
- For determination of the antibody status and collection of epidemiological data

# Expand your customer range by offering dried blood spot analyses

The use of *dried blood spots* (DBS) as sample material reduces the blood collection to a quick prick into the fingertip, sparing patients the burdensome and stressful collection of venous blood. The blood spot is brought onto the blood collection card and after drying, it can be sent to the laboratory immediately. For instance, this allows companies to test all their employees in a fast and convenient way through their medical officer.



## Benefits for the senders

### ✓ Fast and easy blood collection

All required materials are included in the EUROIMMUN Blood Collection Set: alcohol pad, lancet, blood collection card and plasters. The blood collection cards can also be purchased separately.

### Easy shipment

- ✓ The blood collection card with the DBS can be sent to your lab by post using the stamped return envelope. No cooling required.

## Benefits for your lab

### ✓ Automated processing

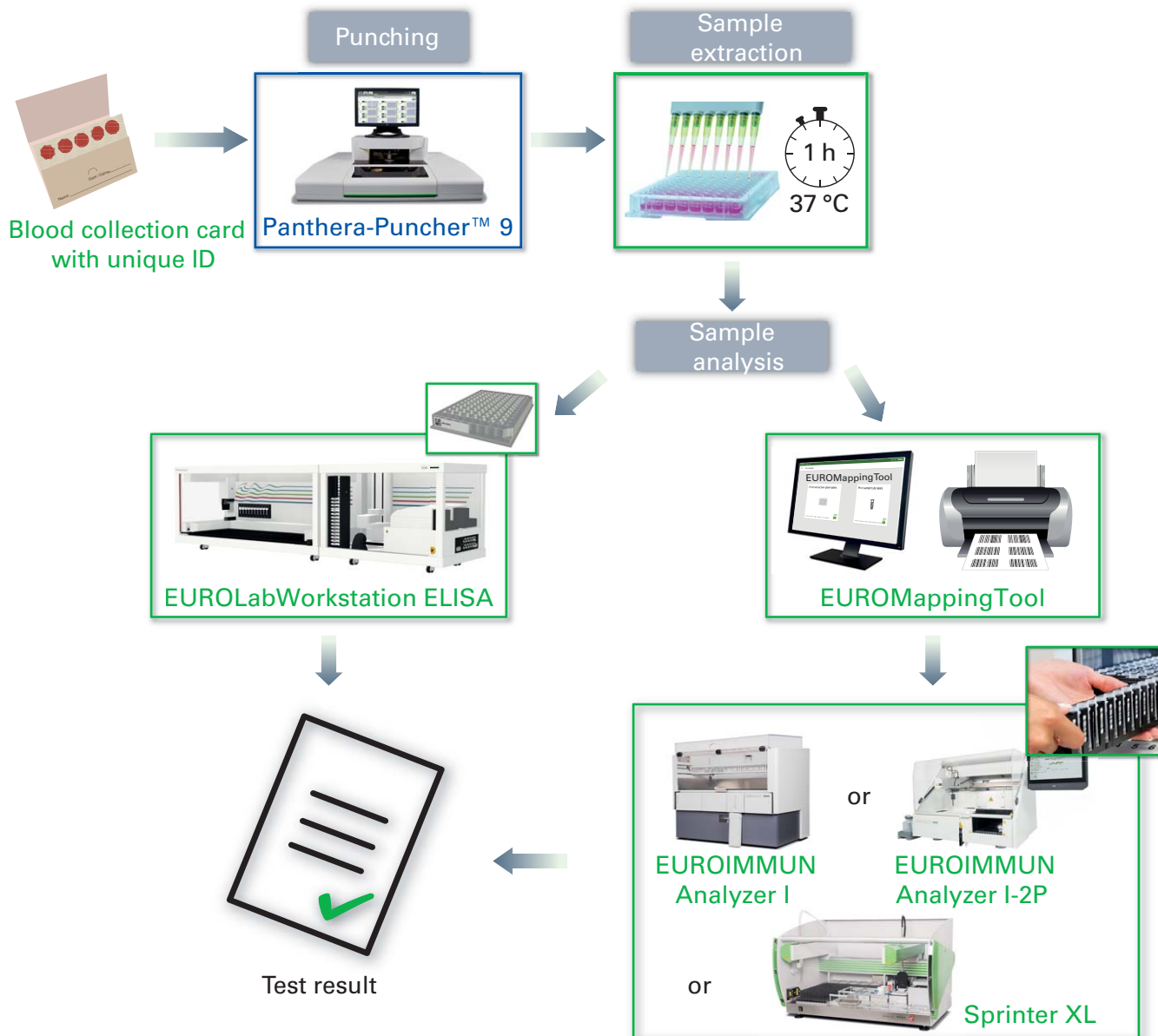
All work steps can be automated. Complete sample traceability is ensured at all times due to unique sample IDs.

### All components from one manufacturer

- ✓ EUROIMMUN offers all materials required for complete DBS diagnostics. In this way, matching work processes are provided together with complete service.

# Automation solutions for every laboratory size

The blood collection cards and the EUROIMMUN ELISAs for detection of anti-SARS-CoV-2 antibodies are validated for fully automated processing on the EUROLabWorkstation ELISA. With every process step, the samples are clearly identified by barcodes. In this way, the laboratory information system (LIS) manages each patient sample from start to finish without any risks of mix-ups.



**EUROLabWorkstation ELISA with 8 incubators**

- Direct loading of the 96-well plates with extracts from DBS
- Parallel processing of up to 15 ELISA plates with 1,390 samples
- Processing time: 5 h 37 min
- Sample throughput: 245 tests/hour

**EUROMappingTool**

- Loading of the extracts in sample tubes with unique ID

**EUROIMMUN Analyzer I and Analyzer I-2P**

- Processing time: 4 h 01 min or 3 h 25 min\*
- Sample throughput: 45 or 52 tests/hour\*

**Sprinter XL**

- Processing time: 3 h 10 min\*
- Sample throughput: 76 tests/hour\*

green: EUROIMMUN product, blue: Please get in touch with your EUROIMMUN contact for information on the PerkinElmer products  
 \*times for the Anti-SARS-CoV-2 NCP ELISA (IgG)



## EUROIMMUN ELISAs for detection of anti-SARS-CoV-2 antibodies

### Anti-SARS-CoV-2 ELISA (IgG)

**S1 domain of the spike protein**



- Contains the immunologically relevant receptor binding domain (RBD)
- RBD is an important target antigen for virus neutralising antibodies.
- Excellent performance and good correlation with neutralisation assays confirmed by external studies
- Sensitivity (> 10 days): 94.4%
- Specificity: 99.6%

### Anti-SARS-CoV-2 NCP ELISA (IgG)

**Modified nucleocapsid protein**



- Antigen with the greatest immunodominance within the coronavirus family
- Optimised specificity due to the use of a modified nucleocapsid protein (NCP) which contains exclusively diagnostically relevant epitopes.
- Sensitivity (> 10 days): 94.6%
- Specificity: 99.8%

### In a nutshell

- Dried capillary blood (dried blood spots, DBS) is a convenient alternative to blood collection from veins.
- Detection of anti-SARS-CoV-2 antibodies (IgG) using the established EUROIMMUN ELISAs with DBS samples is CE-marked. Automated processing is validated for the EUROLabWorkstation ELISA.
- EUROIMMUN offers all required materials: Blood Collection Sets, ELISA kits and comprehensive solutions for ELISA automation. Automation solutions for the punching and extraction of DBS are offered in cooperation with PerkinElmer.

### Order information

Category	Test system	Function	Order number
DBS	Blood collection set	All materials required for easy blood collection from the fingertip	ZV 9701-0101
	EUROIMMUN Blood collection card (100 units)	Cards for blood collection for subsequent analysis in the laboratory	ZV 9711-01100
ELISA	Anti-SARS-CoV-2 ELISA (IgG)	Detection of IgG antibodies against the S1 domain of the SARS-CoV-2 spike protein	EI 2606-9601 G EI 2606-9620 G
	Anti-SARS-CoV-2 NCP ELISA (IgG)	Detection of IgG antibodies against the nucleocapsid protein of SARS-CoV-2	EI 2606-9601-2 G EI 2606-9620-2 G
Automation	PerkinElmer Panthera-Puncher 9	Automated DBS punching in up to nine 96-well plates	2081-0010*
	PerkinElmer DBS Puncher	Automated DBS punching in up to two 96-well plates	1296-071*
	PerkinElmer Janus	Automated addition of the extraction solution to the DBS Automated transfer of the extracts into 96-well plates	AJMDT01*
	EUROLabWorkstation ELISA	Automated ELISA processing for high sample throughputs	YG 0851-0101
	EUROMappingTool	Translation of the plate barcodes into barcodes for sample tubes	YG 9730-0101
	EUROIMMUN Analyzer / I-2P	Automated processing of ELISA kits	YG 0014-0101 YG 0015-0101
	Sprinter XL 160/240 ELISA		YG 0033-0101-3 YG 0033-0101-23

\*PerkinElmer product