

Take care of your
wine, we take care
of its analysis

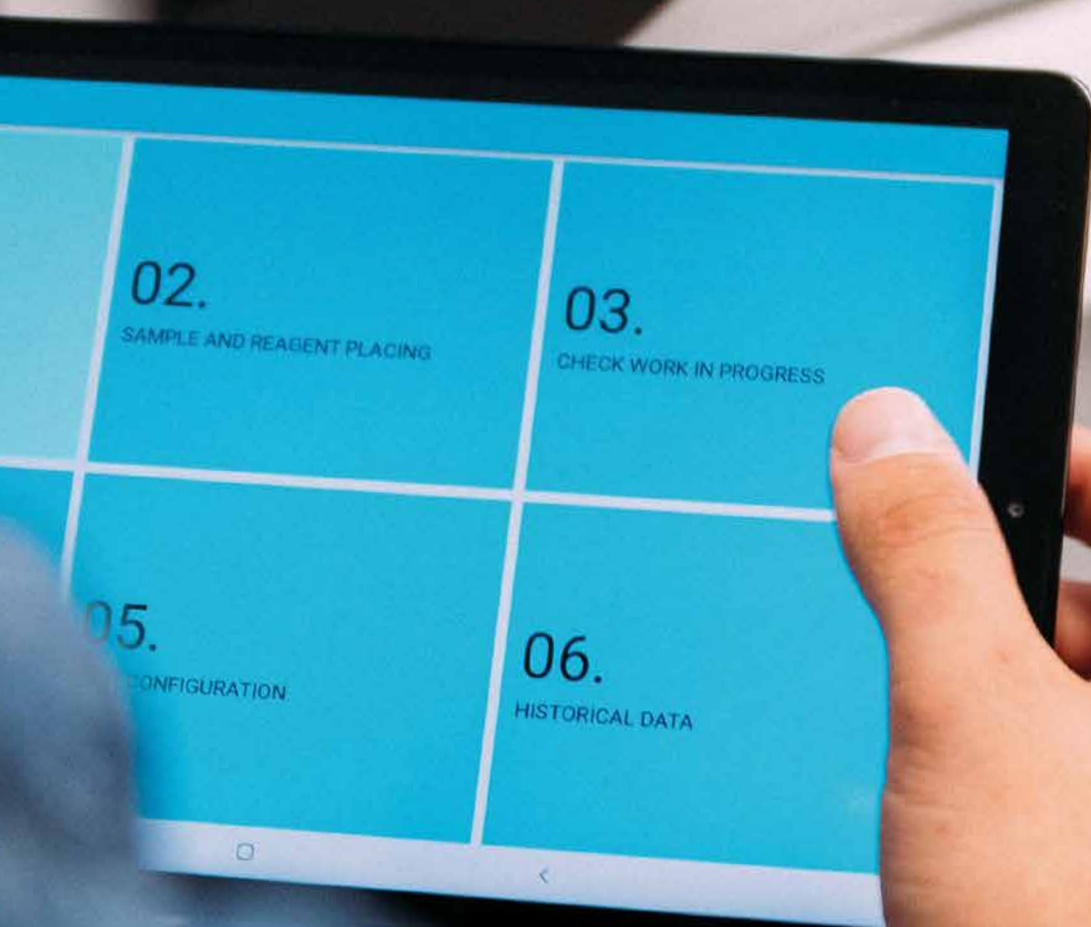
BioSystems
SPICA

Food & Beverage analysis

human - centred biotech

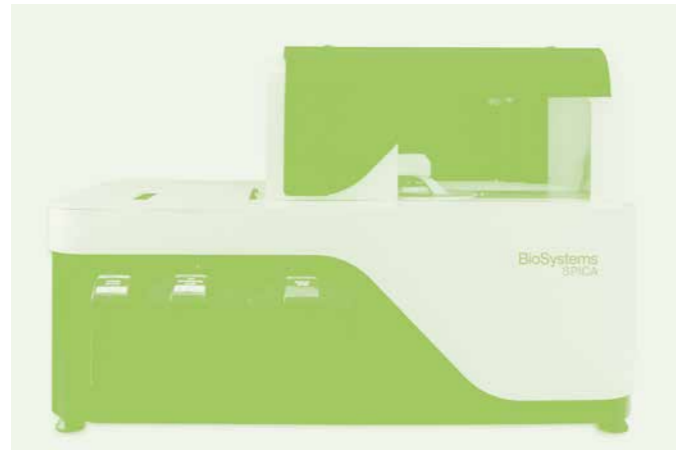


It has never been so easy; the first assisted analytical system.





SPICA is a new system; innovative, modular, connected and intelligent.



Automatic oenological analyser

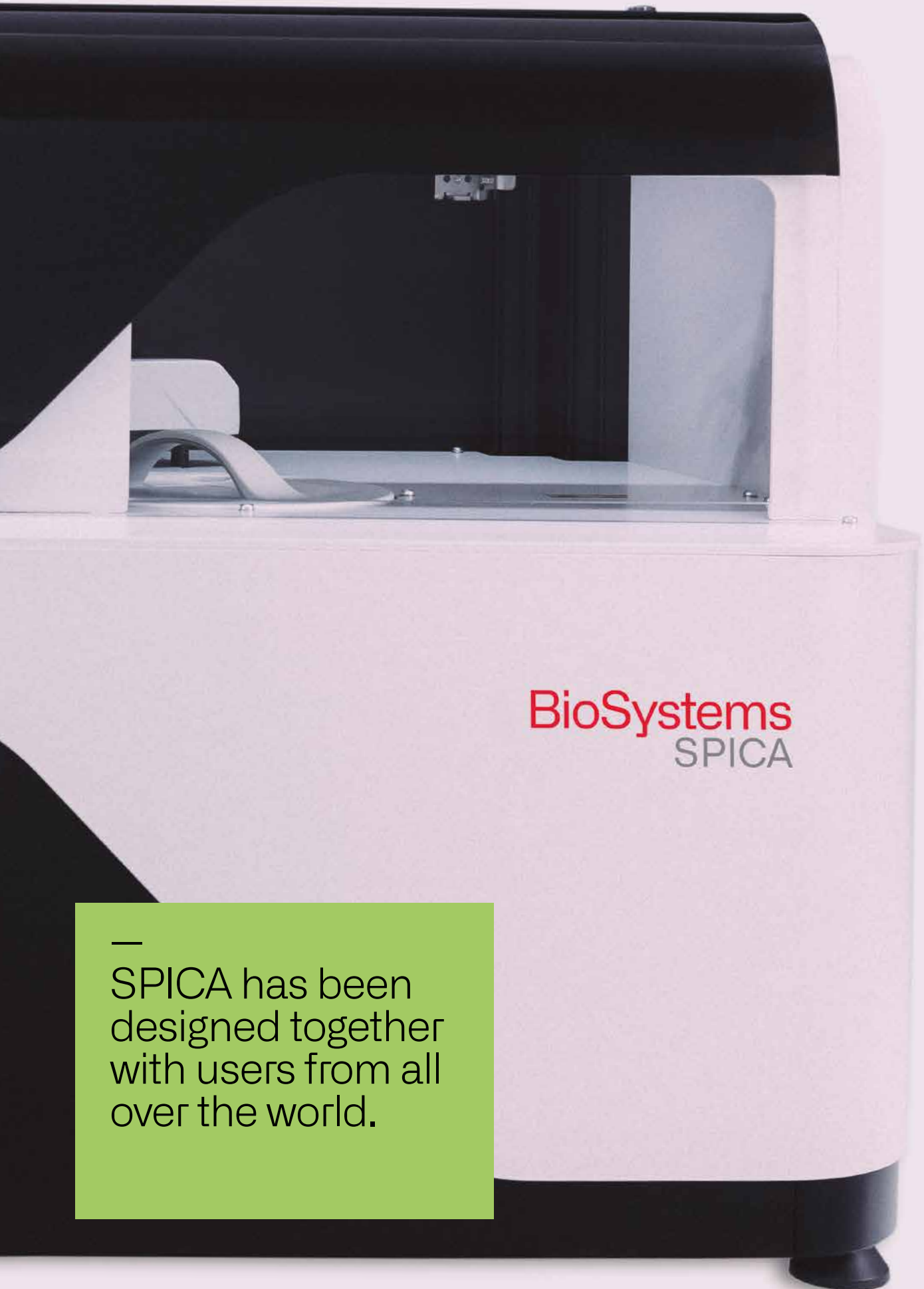
SPICA is set to revolutionize the automatic and multiparametric analytical platforms of the wine sector, SPICA is:

Flexible and modular. Able to configure and adapt to different analytical needs.

Connected. It allows working with any device such as a PC, tablet or even your smartphone, and allows to upload and manage data in the cloud.

Smart and intuitive. The improved autonomy and efficiency of the platform together with a very simple application make it an optimized and user-friendly tool.

Robust and accurate. Incorporating the latest mechanical assemblies offering robustness, repeatability and excellent accuracy.



BioSystems
SPICA

—
SPICA has been
designed together
with users from all
over the world.

Modular and flexible

SPICA has been designed to meet the ever-growing complexity of the wine industries demands. Offering flexibility in programming, SPICA allows users to customize their testing protocols through management of reagents, samples, pretreatments and incubations. Thus improves quality of testing and provides an avenue for future developments and customizations.

The new modular design allows users to add functionality to the SPICA in the form of reagent cooling systems, barcode readers, or a cuvette washing station. These modules can be added at later dates to adapt to changing user needs.

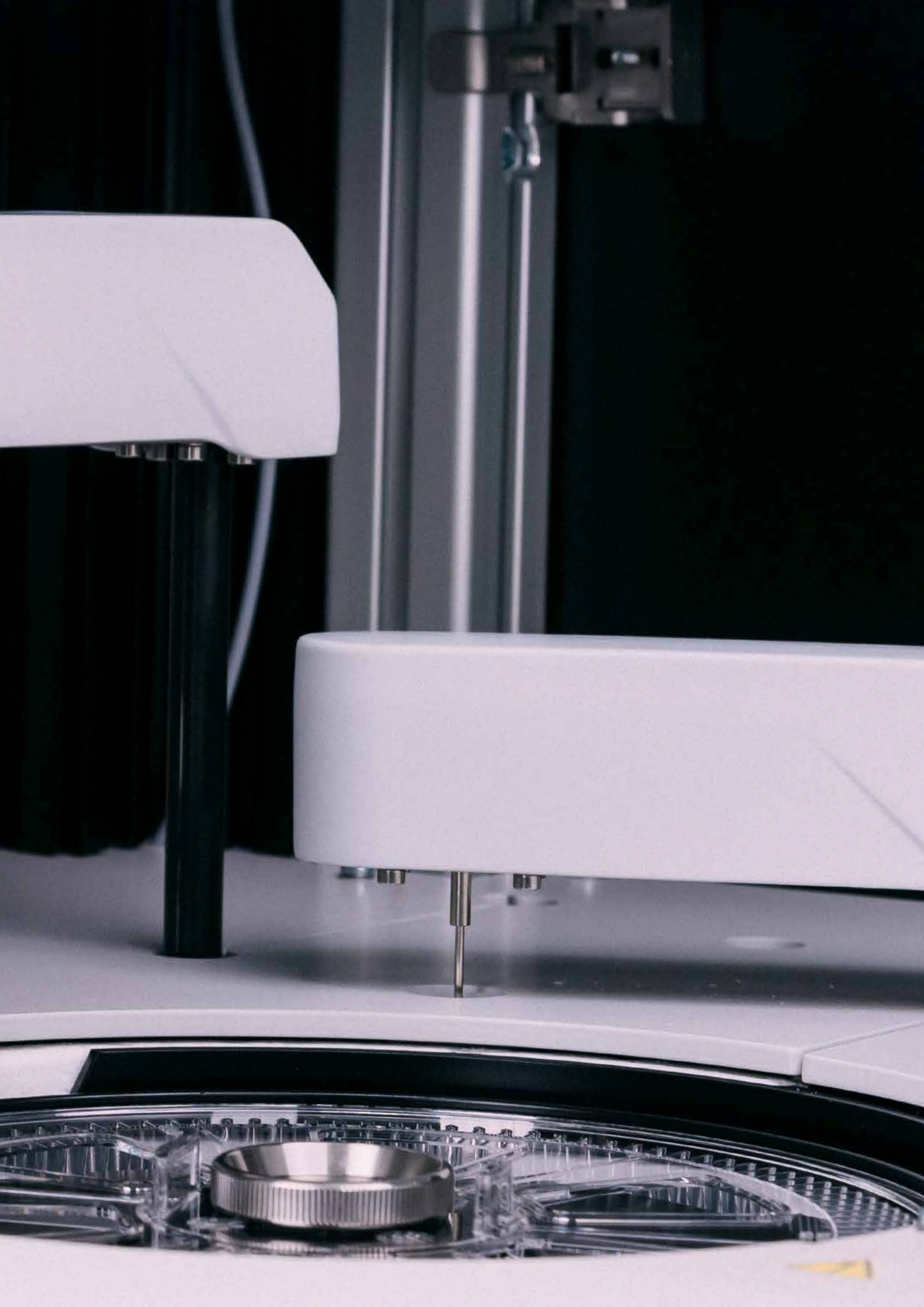




Connected

SPICA improves upon previous experiences with a reimagined user interface focusing on accessibility and ease. The incorporation of an internal computer and cloud-based platform allows users to run the SPICA from any computer or smart device.

Being connected through the Cloud means the analyser no longer connects to software or transfers data to a separate program. The built-in application allows for seamless updates and improvements, along with more efficient access to remote support.





Smart and intuitive

Every stage in the process has been simplified, from setting the device up to the daily routine. No software installations, no peripheral setups, no reagent mixing or expiration control; SPICA takes care of everything.

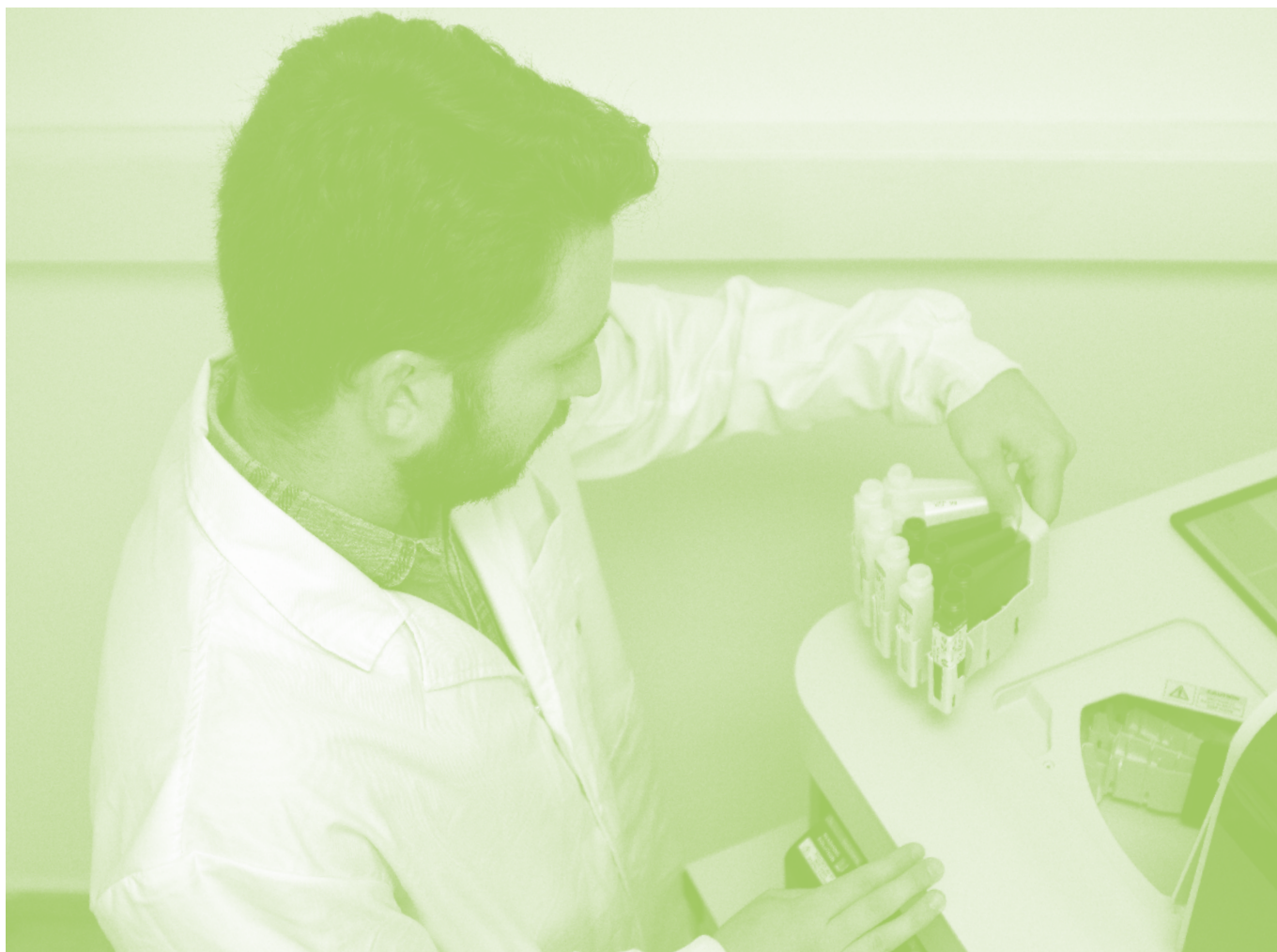
The new interface is very user-friendly and intuitive, designed on user experience feedback in collaborative partnerships with many companies from all over the world. It's automatically adaptable to any support used.

SPICA will guide you through all the processes, guaranteeing accurate results with low reagent consumption. SPICA accompanies you in your decisions.



Robust and accurate

SPICA provides the precision and accuracy you need for everyday decision making. With the incorporation of a powerful LED optical bank ranging from **280 nm to 750 nm**, and a mechanical stirrer, you can be confident in your results.



—
State-of-the-art
technology
in each detail.

BioSystems
SPICA

SPICA reagents

Calibration and control materials

High Glucose/Fructose Control
Ions Multical
Multical
Sulfite Control
Red/White wine control

Ions

Calcium
Iron
Potassium

Nitrogenous substances and sulfites

Ammonia
Free Sulfite
PAN
Total Sulfite

Organic acids

Acetic Acid
Ascorbic Acid
Citric Acid
D-Gluconic Acid
L-Lactic Acid
L-Malic Acid
Sorbic Acid
Tartaric Acid

Other parameters

Acetaldehyde
Anthocyanins
Catechins
Colour
Glycerol
TPI (Total Polyphenols Index)
pH
Polyphenols
Total Acidity

Sugars

D-Glucose/D-Fructose/Sucrose
D-Glucose/D-Fructose

1000 mm

620 mm



650 mm



Technical specifications

General characteristics

Speed	140 cycles/hour
Mean Throughput	50 results/hour*
Analysis principles	Photometry, turbidimetry
Analyser type	Random access Analyser

Sample and reagent management

Sample and reagent rotor capacity	105 positions (7 racks x 15 positions)
Barcode readertype	Optional
Number of samples with barcodes	70
Size of primary tubes	12 mm to 16 mm diameter (max. height 100 mm)
Sample well	Sample well diameter 13.5 mm
Reagent bottle volume	20 mL, 60 mL, 10 mL, 40 mL or 10 + 40 mL
Refrigerated reagents	Optional
Refrigerator temperature range	10 °C under room temperature (at room temperature of 21 °C)
Type of sample pump syringe	Low-maintenance, ceramic piston
Piston diameter	8 mm
Liquids handling limits	2 - 600 µL
Dilution ratio	1:1 to 1:100
Dispensing resolution	Yes
Level detection	Interior and exterior
Washing of tip	Optional
Clot detector	No
Vertical collision detector	Yes
Thermostat tip	Yes

Reaction rotor

Minimum reaction volume	180 µL
Maximum reaction volume	800 µL
Number of cuvettes	120
Cuvette material	UV methacrylate
Type of incubation	Dry
Dispensing time for second reagent	Relative to RA dispensing (variable)
Reaction cuvette temperature	37 °C
Accuracy of temperature	± 0.2 °C
Temperature stability	± 0.1 °C
Stirrers	1

Optional table

Single table	AC17345
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Optical system

Light source	LED + Hard Coating Filter
No. of wavelengths	11 minimum
Wavelengths	280 - 340 - 405 - 420 - 505 - 520 - 560 - 600 - 620 - 635 - 750 nm
Filter bandwidth	- 0.2 Å to 3.5 Å
Wavelength accuracy	0.0001
Photometric range	Principal photodiode + reference photodiode
Internal resolution	CV <1% at 0.1 Å
Detector	Yes
Measurement precision (for 340 nm, 405 nm & 505 nm)	CV <0.1% at 2 Å

Environmental requirements

Room temperature	10 °C to 35 °C
Relative humidity	<85% with no condensation
Maximum altitude	<2000 m
Contamination grade	2
Transportation, storage temperature	0 °C to 40 °C
Transportation and storage humidity	<85% with no condensation

Dimensions and weight

Dimensions (W. x D. x H.)	100 cm x 62 cm x 65 cm
Weight	75 Kg

Electrical requirements

Mains voltage	115 V or 230 V
Network frequency	50 Hz or 60 Hz
Electric power	450 VA
Fluctuations of the mains voltage Electric power	± 10

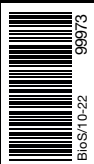
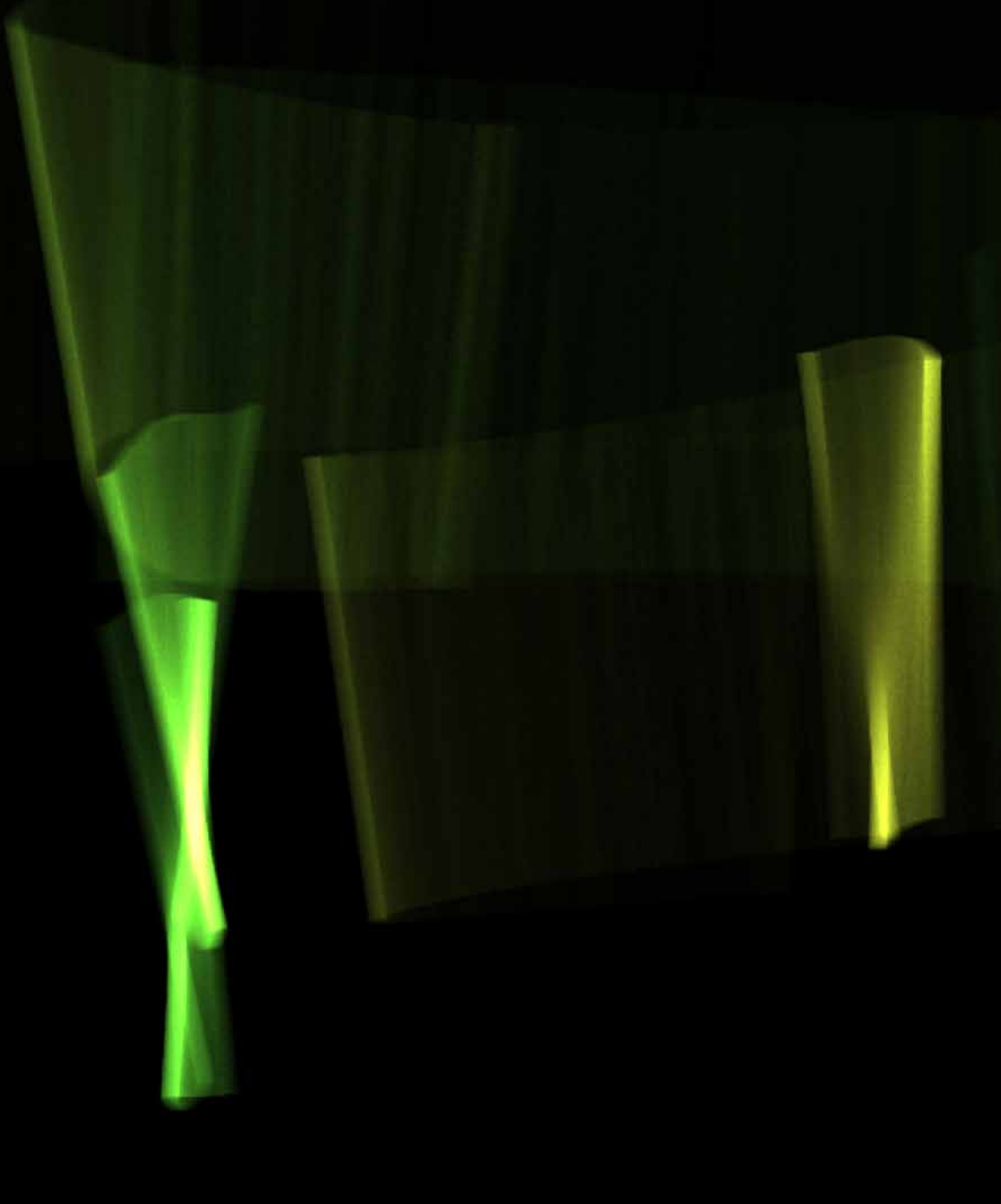
Fluid requirements

Type of water	Fluid requirements
Water tank	3 L
Water tank	3 L
Washing solution tank	1 L

Uninterruptible power supply (UPS)

UPS ref. AC17262	Optional / external
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*Average value, final throughput will depend on the configuration of the worklist and the analyte



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Management
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