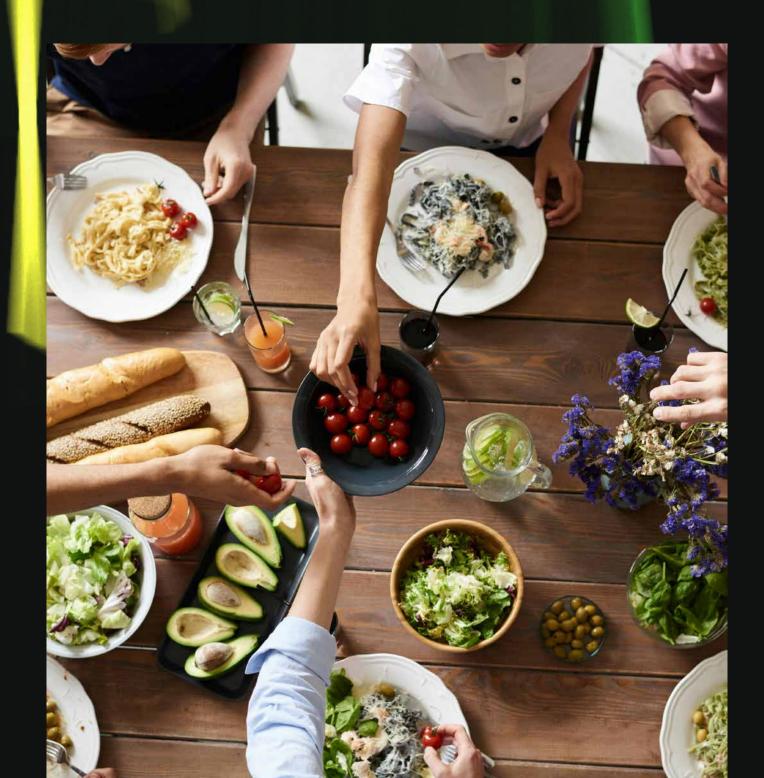
### Robustness & Optimisation

Y15 multiparametric analyser

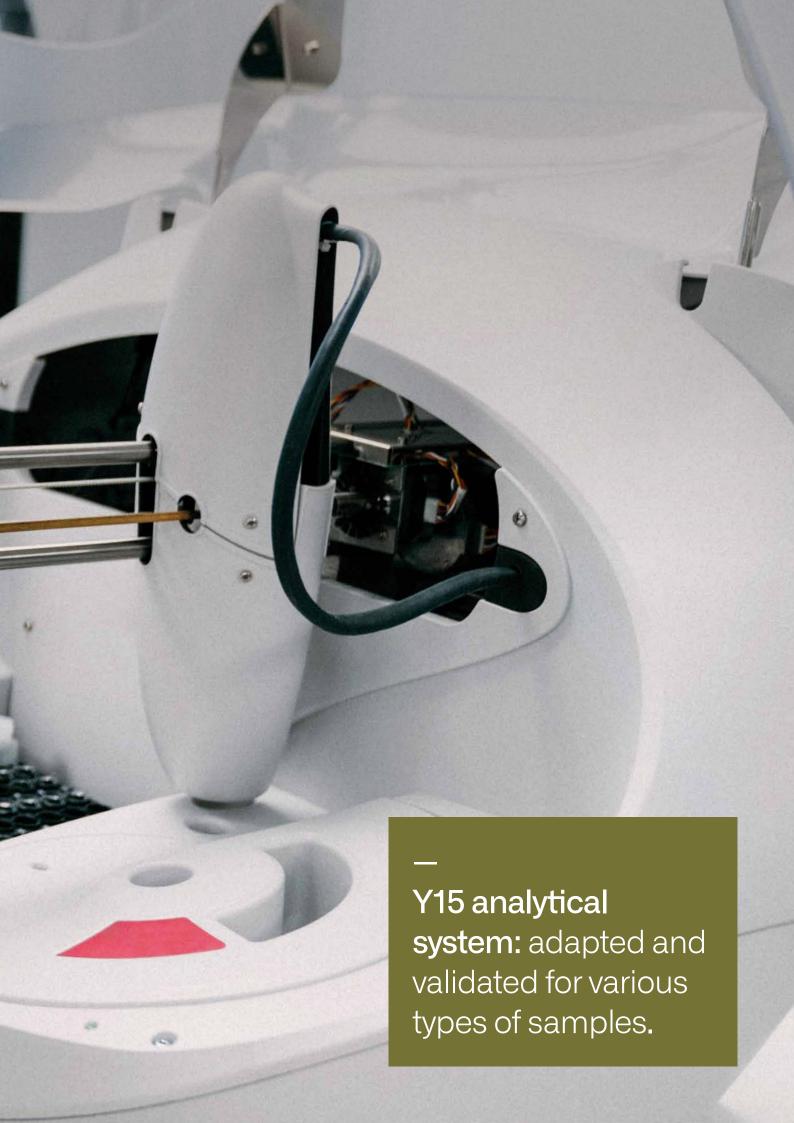
BioSystems Y15

Food & Beverage analysis

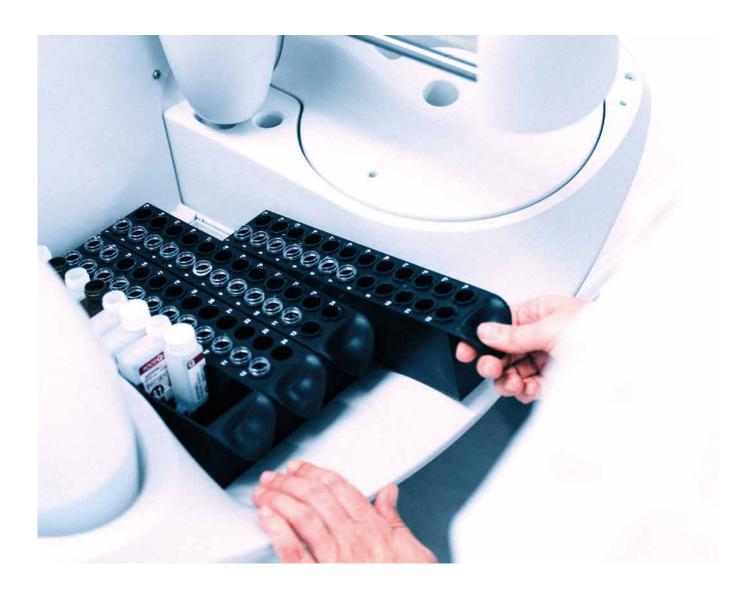
human - centred biotech







# Technological innovation



#### Efficiency in lab automation

Y15 is an **open analyser** that easily adapts to any need. Thanks to its **multiple configuration options**, it can work with and monitor different sample types simultaneously.

#### Reliable and validated analysis system

Y15, in conjunction with the BioSystems line of reagents, is a fully developed system validated for use in food and beverage industries and laboratories. It provides rapid and accurate analytical results during the manufacturing process and facilitates quality control.

#### Minimum handling

Reagents adapted and dedicated to the analyser, avoiding the manual liquid handling.



#### **Continuous loading**

Samples continuous loading to streamline laboratory tasks.

#### Stable onboard temperature

Y15c is the version equipped with a cooling system, which increases the *onboard* stability of reagents and ensures a constant temperature during work lists.

#### Simple and intuitive interface

A user-friendly software, designed specifically for these analysis types. The flexible and simple interface makes the Y15 a versatile analyser that can adapt to any need.





## Analytical solutions

Since 2008, we offer solutions for food and beverage analysis in order to improve their quality and safety.

From discussions with industry and understanding sector needs, our professional team and technical colleagues help the experts of the food industry. We develop and validate analytical systems that are accurate and reliable to offer you an excellent user experience.

Finding the best solution at the same time we continuously improve together. Thus, we offer a personal assistance, giving you technical and scientific support in any moment.

At BioSystems, our main aim is to help our users and customers in their daily job monitoring food and beverages to make the right decisions during all the process.



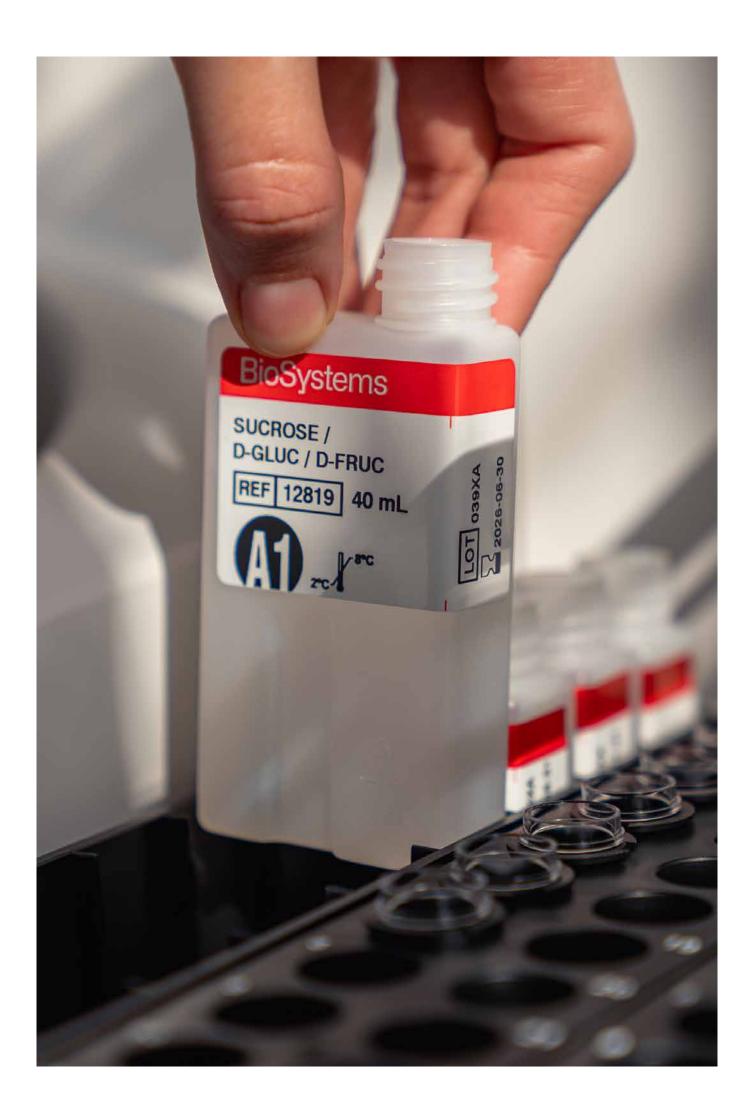
Technical & scientific support



Remote assistance



**Customized** assessment



## Y15 parameters

ORGANIC ACIDS		HISTAMINE	
D-Lactic Acid	12801	Histamine	12829
L-Lactic Acid	12802	Histamine Spike Solution	12891
L-Malic Acid	12803		
Acetic Acid	12810	GLUTEN	
Acetic Acid (Liquid)	12930		
Gluconic Acid	12811	Gluten	31000
Tartaric Acid	12808	Gluten Spike Solution	31002
Pyruvic Acid	12826	Gluten Extraction Solution	31003
L-Glutamic Acid	12830		
Ascorbic Acid	12828	NITROGENOUS SUBSTANCES	
Citric Acid	12825		
		Nitrite	12842
SUGARS		Primary Amine Nitrogen (PAN)	12807
		Ammonium	12809
Total Starch	12848	Urea	12879
D-Glucose/D-Fructose	12800		
Sucrose/D-Glucose/D-Fructose	12819	OTHER PARAMETERS	
Maltose/Sucrose/D-Glucose/D-Fructose	12893		
Lactose/D-Galactose	12882	Ethanol	12847
D-Sorbitol/Xylitol	12895	Polyphenols (Folin-Ciocalteau)	12815
		Glycerol	12812
IONS		Acetaldehyde	12820
Calcium	12824	MULTICALIBRATORS	
Iron	12817		
Соррег	12814	Multical	12818
Potassium	12823	lons Multical	12814
Phosphate (Phosphorus)	12877		
		PRETREATMENTS	
SULFITES			
Sulfite	12845	Carrez Reagent	12837
Juinte	12040		

# Technical specifications

### **Dimensions**

840 mm

670 mm







### Highlights

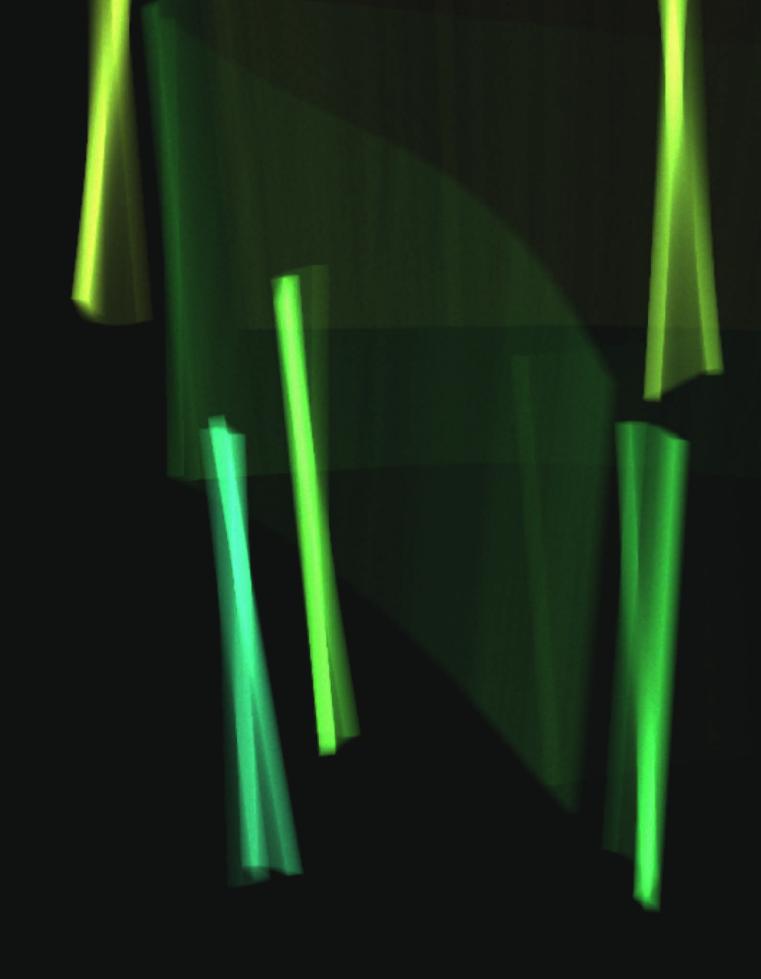
- 150 test/hour (75 sample/hour).
- · Samples continuous loading.
- Dedicated reagents, minimum handling.
- · Automatic pre and post dilution.
- Low water consumption (0.5-1 L/h).
- User-friendly and adaptable software, direct results.

Item	Quantity	Code
Y15 analyser	-	83106
Y15C analyser	-	83106C
Reaction rotor	10 units	AC11485
Concentrated Washing Solution	500 mL	AC16434
Sample wells (pediatric cups)	1000 units	AC10770
Reagent bottles 50 mL + caps	10 units	BO11493
Reagent bottles 20 mL + caps	10 units	BO11494
Amber reagent bottles 50 mL + caps	10 units	BO13442
Halogen lamp Y15 6V/10W	1 unit	LA10429U

Intended use: automated analyser for the measurement of different kind of food and beverage samples. For professional use in analytical laboratories only.



THROUGHPUTS		OPTICAL SYSTEM		
Speed	150 cycles/hour	Light Source	Halogen lamp (6V, 10W)	
Mean throughput	75 results/hour	Lightpath	6 mm	
SAMPLE HANDLING	40'V45	Wavelengths	340 - 405 - 420 - 520 - 560 - 600 - 620 - 635 - 670 nm (1 additional filter can be added by user)	
Positions for racks (reagents or samples)	4 or 2 in Y15c	Wavelenght accuracy	±2 nm	
Rack samples capacity	24 sample positions/rack	Spectral range	340 - 900 nm	
Max. capacity of samples	72 or 48 in Y15c	Photometric range	-0.05 to 3.6 A	
Barcode reader	External	Photometric detection system	Silicon photodiode	
Size of primary tubes Ø 13 mm or 15 mm (max. height 100 mm)		Internal resolution	<0.0001 A	
		Baseline stability	0.004 A max., 30 minutes at 505 nm	
Sample well diameter	13 mm	SIZE AND WEIGHT		
Sample types	agri-food and beverage samples		040 050 045	
Dispensing pump	Ceramic pump of high durability	Size (w., d., h.)	840 x 670 x 615 mm	
Dispensing tip	Stainless steel 110 mm	Weight	45 Kg	
Level detection	Capacitative	ELECTRICAL AND ENVIRONMENTAL REQUIREMENTS		
Sample pipetting volume	From 2 µL to 80 µL	Mains voltage	115 to 230 V	
Pipetting resolution Predilution ratio	0.1 µL	Mains frequency	50 or 60 Hz	
	From 1:2 to 1:40	Electric power	150 A (200 A in Y15c)	
Tip wash	Inside and outside	Ambient temperature	From 10 to 35 °C	
REAGENTS HANDLING		Relative humidity	<75%	
Volume of reagent bottles	20 mL, 50 mL	Altitude	<2500 m	
Reagents rack capacity	10 bottles of 20 or 50 mL	FLUID REQUIREMENTS		
Cooled reagent	Yes, in Y15c. 20 reagents max.	<del>-</del>		
Temperature range of cooler	10 °C below room temperature	System liquid solution bottle	3 L	
Destautenten	(at 25 °C)	Washing solution bottle	3 L	
Reagent volume	R1 volume, 10 μL to 600 μL R2 volume, 10 μL to 200 μL	Waste solution bottle	3 L	
Dispensing mode	Ceramic pump	MINIMUM COMPUTER REQUI	REMENTS	
Pipetting resolution	without maintenance 1 µL	Operative system	Windows® 10 (x64) or Windows® 11 (x64)	
Tip wash	Inside and outside	CPU	Equivalent to IntelCore i3 (8th generation) ■3.10 GHz or over	
REACTION ROTOR		RAM	8 GB	
Reaction volume range	From 180 µL to 800 µL	Hard Disk	40 GB or over	
Number of wells	120	DVD Lector	Yes	
Well material	UV methacrylate	Monitor minimum resolution	1280x800	
Type of incubation	Dry without maintenance	Connector of serial channel	USB	
Temperature	37.0 °C			
Temperature accuracy	±0.2 °C	LABORATORY INFORM ON SYSTEMS (LIS)		
		Connectivity to LIS	Yes	





BioSystems S.A.
Costa Brava 30, 08030 Barcelona (Spain)
t. +34 933 110 000
foodbeverage@biosystems.global
www.biosystems.global



Management System ISO 9001:2015

www.tuv.com ID 0091006696