









Who we are

Biosensor srl offers:

- new biosensor instruments for environmental monitoring, agrifood analyses and biomedical applications;
- bioassay development;
- technological solutions and consulting services in the biosensor development sector;
- a strong know how and documented expertise in the field of algae growth, water waste treatment by algae, bio-reactor design and development.

Biosensor is available as partner in technology development in European programmes.

Vision

Being a leading company supporting basic life sciences through advanced manufacturing, multidisciplinary competences, and the constant pursue of new business and research opportunity on biology.

Mission

Providing expertise in design, prototype fabrication, calibration, testing and product engineering of miniaturized modular automated instruments for biotechnology, agrifood, environmental monitoring, biomedical application.





Biomediators and Analytes
Possible matrix: water, juices, oil, plasma, urine etc.

Substance to detect analyte	Example of specific analytes	Principle of Analysis Biomediator	Type of Analysis	Limit of Detection LOD Concentration w/v
Photosynthetic herbicides	Triazine: Atrazine, Simazine Phenyl-uree: Diuron, Linuron	Algae	Fluorescence and Amperometry	Range 0.68 - 0.02 μg/l
Photosynthetic herbicides	Atrazine, Simazine, Diuron, Linuron	Thylakoids	Amperometry	Range 9.9 - 0.17 μg/l
Carbamate and Organophosphate	Chlorpyrifos	Acetylcholinesterase	Fluorescence	0. 35 μg/l
Carbamate e Organophosphate	Paraoxon	Butyrylcholinesterase	Amperometry	3.5 mg/l
Phenolic Compounds	Catechol	To -	Fluorescence	0.2 μg/l
		Tyrosinase	Amperometry	0.3 mg/l
		1	Fluorescence	0.1 mg/l
		Con.	Amperometry	0.1 mg/l
	Bisphenol A	Laccase	Amperometry	11 mg/l

Substance to detect	Principle of analysis	Type of Analysis	Limit of Detection LOD	
	Biomediator		Concentration w/v	
Glucose	Glucose Oxidase	Amperometry	0.9mg/l	
Lactose	Glucose Oxidase+ β- galactosidase+ Horseradish peroxidase	Amperometry 31mg/l		
	β- galactosidase	Fluorescence	0.09g/l	
Urea	Urease	Fluorescence	0.12g/l	



Devices for biomediators: microrganisms, enzymes, proteins, cells, tissues



Amp Biosens

Amp Biosens is a one cell Amperometric Biosensor based on Screen-printed Electrodes (SPEs) reading responses from a biological mediator which interacts directly with the substance to detect.

Antiox Biosens

The Antiox Biosens device is an electrochemical Biosensor based on Screen-printed Electrodes (SPEs) detecting antioxidant capacity from a biological mediator.

Among the substances analyzed there can be especially food, juices and raw materials.





BioITO Biosens

BioITO Biosens is an Amperometric Biosensor prototype based on Indium Tin Oxide (ITO) electrode reading responses from a biological mediator which interacts directly with the substance to detect. The output current is read out by two electrodes: the ITO (coated on a glass substrate) and a (carbon) screen printed electrode (SPE).

Fluo Biosens

Fluo Biosens is a modular biosensor instrument, characterized by 2 (until 6) independent cells for carrying out, simultaneously, fluorescence tests on several types of biomediators.





Fluo Flux

Fluo Flux is a modular biosensor instrument able to grow microorganisms used as biomediators, and to perform fluorescence measurement detecting analytes in the samples.

MultiArray Biosens

MultiArray Biosens is a multi-cell Amperometric and Fluorescence Biosensor based on Screen-printed Electrodes (SPEs).

MultiArray Biosens can read responses from a biological mediator which interacts directly with the substance to detect.





MultiBioPlat

MultiBioPlat is a prototype biosensor platform which combines three types of transduction systems into miniaturized measurement cells: Fluorescence, Amperometry and Conductometry. The prototype is based on MicroElectrodeArray (MEA) for the amperometric and conductometric detection and an optical module for fluorescence sensing.

Multilight Biosens

Multilight Biosens is a modular biosensor instrument, characterized by an array of six cells for carrying out, simultaneously, tests of fluorescence on several types of biomediators (algae and enzymes)





Multitask Biosens

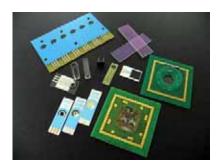
Multitask Biosens is a double cell Amperometric and Fluorescence Biosensor based on Screen-printed Electrodes (SPEs) reading responses from a biological mediator which interacts directly with the substance to detect.

SMAlgal Sens

SMAlgal Sens (System of Measurement for Algae) is a small portable instrument to optically characterize the fluorescence emission and the optical density (correlated to a cell density) of algae culture (e.g Haematococcus pluvialis, Spirulina sp., Chlorella minutissima, etc.).







Chips for biomediators





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