Instant screening method for monitoring of POP's and chemical contaminats in water samples.

Presented by Saftra Photonics

SCIENTIFIC EXCELLENCE MEETS BUSINESS

Technology based on 25 years of basic research





SUSTAINABILITY VISION



PROBLEM ADDRESSED

Agriculture and industry cause massive pollution of water and soil by Persistent Organic Pollutants (POPs)

They accumulate in human bodies through food & beverages and cause serious illness, including cancer

The Stockholm convention united 152 countries around the world to address this major problem.



Two challenges for beverage and food producers, water plants and public authorities

MORE EFFICIENT MONITORING



MORE EFFICIENT MONITORING Standardized methods

II. NEW POLLUTION **MONITORING**



Drug residues

Rare chemicals

Detergents

Fertilizers



PickMol **TECHNOLOGY**

		Арр
Pickn		
	RAMASCOPE	
Detection system		
RAMASCOFE		

Mobile

Target molecules Database



Patent [PCT/IB2018/060065] registered [EPO,USA,CAN,JAP,RUS] and validated solution that brings a new quality of pollution monitoring.



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validated according to

(CEN guide 2013) December 21, 2020 PickMol technology applied

pesticides in milk samples.

validated according to environmental test methods

(CEN guide 2013) December 13, 2019

February 3, 2020 PickMol technology applied

PickMol technology applied for multiplexing chip used for direct extractionless detections of pesticide molecules in milk was validated according to environmental test methods (CEN guide 2013)

by saftraphotonics | Dec 21, 2020 | News

CO SAFTRA PHOTONICS

SAFTRA photonics has completed the procedure for the standardisation process of the PickAloTM technology to verify it as an approved reference method for high-sensitive screening of Persistent Organic Pollutants (POPs) goalutant.



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https://www.saftra-photonics.org

PickMol database

Mainly organic pollutants and industial contaminants

- Pesticides, PFAS
- Pigments and dyes
- Drug and doping residues
- Peptides
- Explosives and warfare agents
- Dioxane, Glyphosate, disinfection agents

Feasibility studies for many others molecules

PickMol SCREENING SOLUTIONS

Direct analysis of water samples: no pretreatment, no chemicals, no waste the time from sample collection to the results up to 10 minutes

O2 cheaper ≥ 200x than mass spectrometry analysis cost/molecule

03 Can be used directly on the spot without sample transport to the lab.

04 unique sensitivity (ppb) designed for critical water quality monitoring

PickMol Application Fields

Sub-nanomolar detection of target molecules in the environment, food, pharmacology and biological systems. Water quality control

Production process control Industrial cleaning processes Industrial waste water analysis

THANK YOU FOR YOR ATTENTION

