

TESTS FOR DETECTION OF HEAVY METALS, NITRATES, AND CATIONIC SURFACTANTS IN LIQUID SAMPLES



Demonstration samples of test systems

Areas of Application

The tests are to be used for laboratory and field ecomonitoring as well as for industrial and domestic application in order to detect toxic substances in drinking, tap or sewage water, juices, fruits, and vegetables

Advantages

The proposed tests are competitive to famous brands, easy-to-use and have a long-term stability under storage conditions

Stage of Development. Suggestions for Commercialization

IRL6, TRL7
Upon request, tests are manufactured or developed

IPR Protection

IPR1, IPR3

Specification

Test	Range of detection	Test type
Fe-test	0.02–0.3 mg/l	Sorption on polyurethane foam
Cu-test	0.003–1 mg/l	Indicator paper
Mn-test	0.03–1 mg/l	Indicator film
Ni-test	0.03–1 mg/l	Sorption on polyurethane foam
Co-test	0.4–1 mg/l	Sorption on polyurethane foam
Chlorine	0.1–2 mg/l	Indicator paper
Cationic surfactant	0.1–1 mg/l	Sorption on polyurethane foam
Nitrates and nitrites	50–800 mg/kg	Indicator paper
Heavy metals	0.2–6.4 μ mol/l	Indicator paper

Contact Information

Kostantyn M. Belikov, State Scientific Institution “Institute for Single Crystals” of the NAS of Ukraine; +38 057 341 03 57, +38 057 341 02 79, e-mail: belikov@isc.kharkov.com