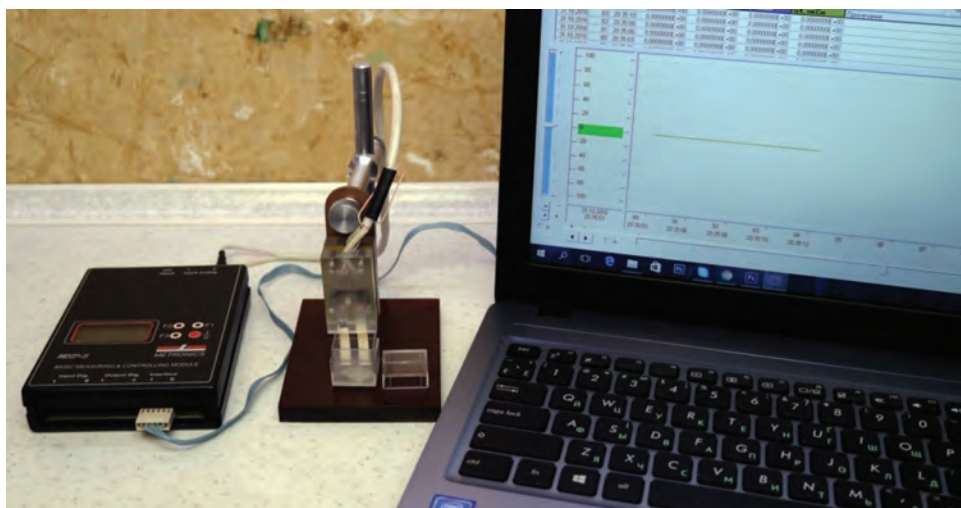


CONDUCTOMETRIC BIOSENSOR SYSTEM FOR IDENTIFICATION OF GLUCOSE, SUCROSE, MALTOSE, LACTOSE, AND FRUCTOSE



Specification

Analyte	Linear range of detection, mM	Storage stability, months	Time of analysis, min	Measurement error, %
Sucrose	0.005–3.5	4	1–5	≤5
Maltose	0.01–1.5	1.5	1–5	≤5
Lactose	0.01–2.0	3	1–5	≤5
Glucose	0.001–3.5	6	1–5	≤5
Fructose	0.05–1.5	0.5	1–8	≤10

Areas of Application

The system is designed for detection of carbohydrates in foodstuffs, pharmaceuticals, agricultural and biotechnology products

Advantages

There are no commercial counterparts. The proposed system does not require pre-sampling, has a short time of analysis (express analysis), a low labor intensity and a low cost of analysis, and a high sensitivity and selectivity; it can simultaneously detect different carbohydrates

Stage of Development. Suggestions for Commercialization

IRL6, TRL5

The product is manufactured upon request. Seeking partners for commercial production of the system

IPR Protection

IPR3

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