

Development of a Dual-Readout Multicolor Immunoassay for the Rapid Analysis of Isocarbophos in Vegetable and Fruit Samples

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Table S1 The gradient elution parameters of HPLC

Time (s)	Volume of phases A (%)	Volume of phases B (%)
0	97	3
1	97	3
1.5	85	15
2.5	50	50
18	30	70
23	2	98
27	2	98
27.1	97	3
30	97	3

Table S2 Comparison of immunoassay for isocarbophos analysis

Method	Mode	IC ₅₀	Linear Range	LOD	Reference
ICA	Nake-eye analysis	ND ^a	ND	100 ng/mL	[1]
ICA	Nake-eye analysis	ND	ND	20 ng/mL	[2]
ELISA	Absorbance	58.85 ng/mL	ND	8.65 ng/mL	[3]
ELISA	Absorbance (two-step ELISA)	184.7 ng/mL	58.4-584.2 ng/mL	29.8 ng/mL	[4]
	Absorbance (one-step ELISA)	261.7 ng/mL	52.3-1309.6 ng/mL	20.4 ng/mL	
Immunosensor	Photothermal	ND	41.15-10000 ng/mL	2.62 pg/mL	[5]
	Ratiometric fluorescence	ND	0.24-7.81 ng/mL	0.21 pg/mL	
Multicolor immunoassay	Absorbance	11.5 ng/mL	3.9-62.5 ng/mL	4.6 ng/mL	This work
	RGB analysis	31.8 ng/mL	7.8-125 ng/mL	10.9 ng/mL	

^aND: No data

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