

Article

Research and Application of In Situ Sample-Processing Methods for Rapid Simultaneous Detection of Pyrethroid Pesticides in Vegetables

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Table S1. Comparison table of LUMTECH MPFC-QuEChERS purification column.

Purification Column Name	Applicable Conditions	Applicable Matrix	
LUMTECH MPFC-QuEChERSpurificati on column (simple substrate)	Suitable for matrix containing organic acids, some sugars, and a small amount of pigment	Melons	cucumber squash, zucchini, bitter melon, loofah, etc. winter squash, pumpkin, winter squash, etc.
		Leafy vegetables	Chinese cabbage
		Nightshade	tomato
		Beans	vegetable soybeans, broad beans, peas, lima beans, etc.
		Stem	asparagus, lettuce, rhubarb, etc.
		Sprouts	mung bean sprouts, soybean sprouts, radish sprouts
		Bulbs	garlic, onion, leek, lily, etc. leek, green onion, green garlic, garlic sprout, etc. cabbage, Brussels sprouts, Brussels sprouts, etc.
		Brassica	chinese kale, chinese cabbage, chinese cabbage, stem mustard, etc.
		Leafy vegetables	spinach chinese cabbage, small rapeseed, greengrocery carrots, beet leaves, chrysanthemum, lettuce, celery, celery, fennel, bulb fennel, etc.
		Nightshade	eggplant, chili, sweet pepper, okra, physalis, etc.
LUMTECH MPFC-QuEChERSpurificati on column (complex substrate)	Suitable for higher pigment content in the matrix	Beans	cowpeas, kidney beans, podded peas, lentils radish, carrot, beetroot
		Rhizomes and taro	potato sweet potato, yam, burdock seed, cassava, taro, kudzu, konjac, etc.
		Aquatic	water cress, rice white, cattail, etc. water chestnut, gorgon, etc.
		Other perennial vegetables	lotus root, water chestnut, sage, etc. pepper buds, toon buds, etc.
			daylily, bamboo shoots, cactus, chrysanthemum, etc.

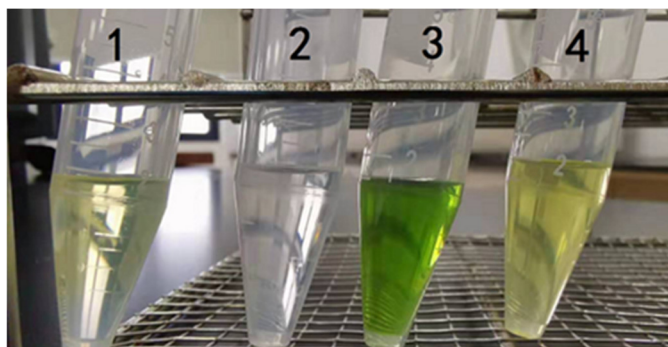


Figure S1. Color comparison diagrams of purification solutions (green grocery) corresponding to different methods. 1—purification solution made by NANO CARB; 2—purification solution made by m-PFC1 (complex matrix); 3—purification solution made by QuiClear, 4—purification solution made by conventional QuEChERS treatment.