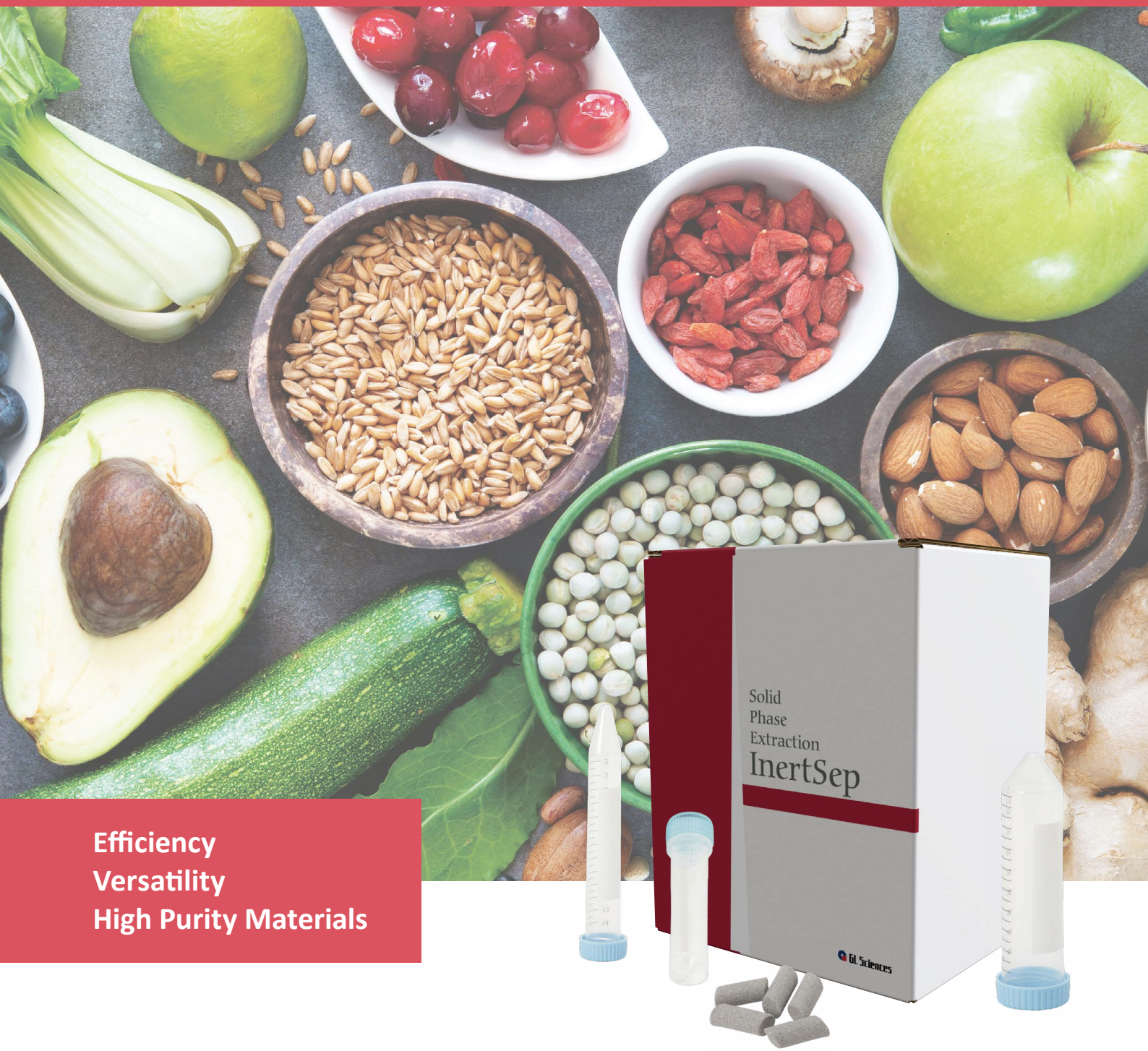
GL Sciences

Chromatography Products

QuEChERS Kit

High-Quality Solutions for Efficient Sample Preparation



Efficiency
Versatility
High Purity Materials

Quick, Easy, Cheap, Effective, Rugged, and Safe.

GL Sciences, with a legacy spanning over half a century since its founding in 1968, is proud to present its new InertSep QuEChERS Kit.
Our extensive experience in manufacturing high-quality chromatography products ensures that this kit meets the highest standards of purity and performance.

Key Features:

High-Purity Materials: The SPE material "InertSep" is designed to maximize the performance of chromatography and mass spectrometry.

Compatibility: Complies with international standards such as AOAC and EN protocols, ensuring consistent results.

Original 2003 Method:

Analysis of pesticide residues

A simple and effective protocol for extracting various compounds in one step.

AOAC 2007.01 Method:

Analysis of acidic or basic compounds

A variation optimized for acidic pesticides, involving pH adjustments and the addition of specific buffering agents (buffers).

EN 15662 Method:

Analysis of pesticide residues in food within Europe

A European standard based on QuEChERS, focused on plant-based foods, using acetonitrile extraction and dSPE for clean-up.

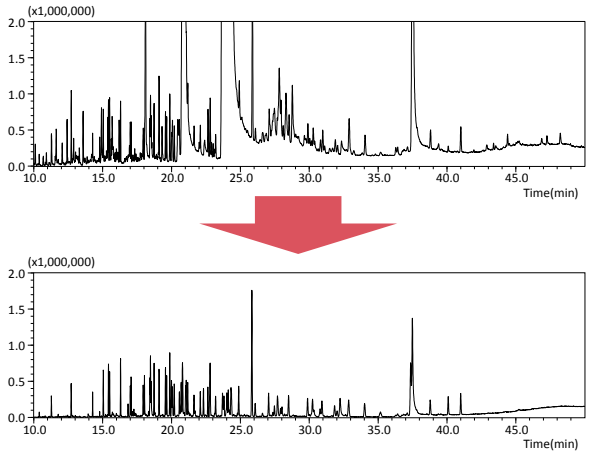
NY/T 1380-2007 Method:

Analysis of pesticide residues in food in China

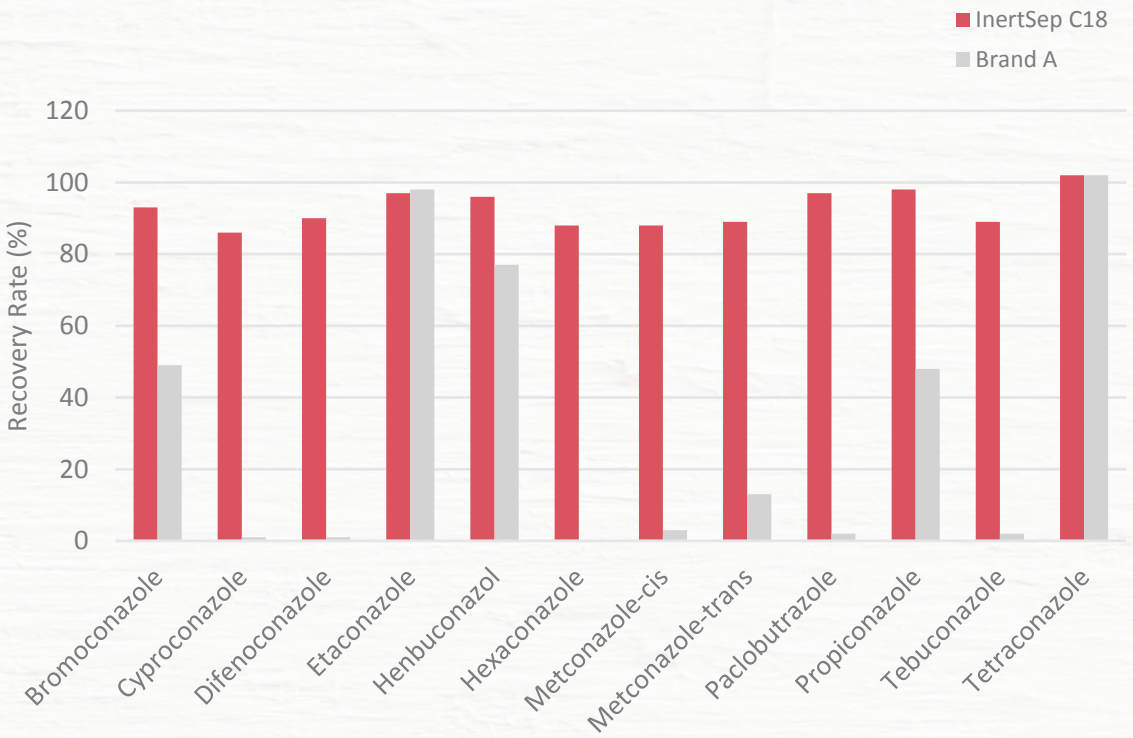
A Chinese agricultural standard based on QuEChERS, designed for multi-class pesticide residue analysis, with acetonitrile extraction and dSPE.

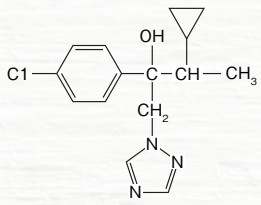
User-Friendly: Clear instructions and easy-to-use components make it accessible for both novice and experienced users.

The solid-phase extraction (SPE) cleanup step in the QuEChERS method is critical for effectively removing impurities from samples. It can efficiently eliminate impurities such as organic acids, sugars, fatty acids, pigments, chlorophyll, and carotenoids from food samples, thereby enhancing the accuracy and reliability of the subsequent analyses using LC/MS or GC/MS.

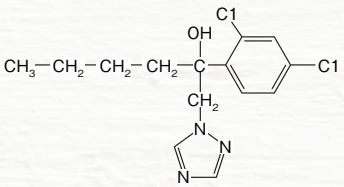


Pesticides with triazole, triazine, or pyrimidine groups are known to have polar characteristics, making them prone to adsorption on the silanol groups of solid-phase extraction bulk materials, which can result in poor recovery rates. The material used in GL Sciences' QuEChERS Kit exhibits high inertness, reducing secondary adsorption effects and thereby enhancing the reliability of the analyses of these pesticides.

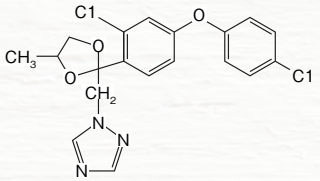




Cyproconazole



Hexaconazole



Difenoconazole

Extraction Kit

Cat.No.	Descriptions	Kit	Qty	Method
5010-10000	6 g MgSO4, 1.5 g NaOAc with 50 mL Centrifuge Tube	Tube & packet	50/pk	AOAC 2007.01
5010-10001	6 g MgSO4, 1.5 g NaOAc	packet	50/pk	AOAC 2007.01
5010-10002	4 g MgSO4, 1 g NaCl, 1 g Trisodium Citrate, 0.5 g Disodium citrate with 50 mL Centrifuge Tube	Tube & packet	50/pk	EN 15562
5010-10003	4 g MgSO4, 1 g NaCl, 1 g Trisodium Citrate, 0.5 g Disodium citrate	packet	50/pk	EN 15562

dSPE Kit

Cat.No.	Volume	$MgSO_4$ (mg)	PSA (mg)	C18 (mg)	GCe (mg)	Si (mg)	Qty	Sample Type	Method
5010-10010	2 mL	150	25	-	-	-	100/pk	General Fruits and Vegetables	EN Original
5010-10011	2 mL	150	50	-	-	-	100/pk		AOAC 2007.01
5010-10012	15 mL	900	150	-	-	-	50/pk		EN Original
5010-10013	15 mL	1200	400	-	-	-	50/pk		AOAC 2007.01
5010-10014	2 mL	150	25	25	-	-	100/pk	Foodstuffs with fats and waxes	Mini-multiresidue
5010-10015	2 mL	150	50	50	-	-	100/pk		AOAC 2007.01
5010-10016	15 mL	1200	400		400	-	50/pk		AOAC 2007.01
5010-10017	15 mL	900	150	150	-	-	50/pk		EN 15662
5010-10018	15 mL	1200	400	400	-	-	50/pk		AOAC 2007.01
5010-10019	2 mL	150	25	-	2.5	-	100/pk	Pigmented fruits and vegetables	EN 15662
5010-10020	2 mL	150	50	-	50	-	100/pk		AOAC 2007.01
5010-10021	15 mL	1200	400	400	400	-	50/pk		AOAC 2007.01
5010-10022	15 mL	900	150	-	15	-	50/pk		EN 15662
5010-10023	2 mL	150	25	-	7.5	-	100/pk	Highly pigmented fruits and vegetables	EN 15662
5010-10024	2 mL	150	50	50	50	-	100/pk		AOAC 2007.01
5010-10025	15 mL	900	150	-	45	-	50/pk		EN 15662
5010-10032	15 mL	900	300	-	150	-	50/pk		-
5010-10026	2 mL	150	-	25	-	-	100/pk	Drug Residues in Meat	AOAC 2007.01
5010-10027	15 mL	900	-	150	-	-	50/pk		AOAC 2007.01
5010-10028	2 mL	150	50	50	7.5	-	100/pk	General Purpose	AOAC 2007.01
5010-10029	15 mL	1200	400	400	45	-	50/pk		AOAC 2007.01
5010-10030	15 mL	900	300	300	90	300	50/pk	-	2020 Chinese Pharmacopoeia
5010-10031	15 mL	300	100	100	-	-	50/pk	-	NY/T 1380-2007

Ceramic Homogenizers

Cat.No.	Descriptions	Qty
5010-10050	50 mL	100/pk
5010-10051	15 mL	100/pk
5010-10052	2 mL	200/pk

Bulk Material

Descriptions	Particle Size	Qty	Cat.No.
C18	60 um	100 g	5010-69000
PSA	60 um	100 g	5010-69021
GCe	-	100 g	5010-89116

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