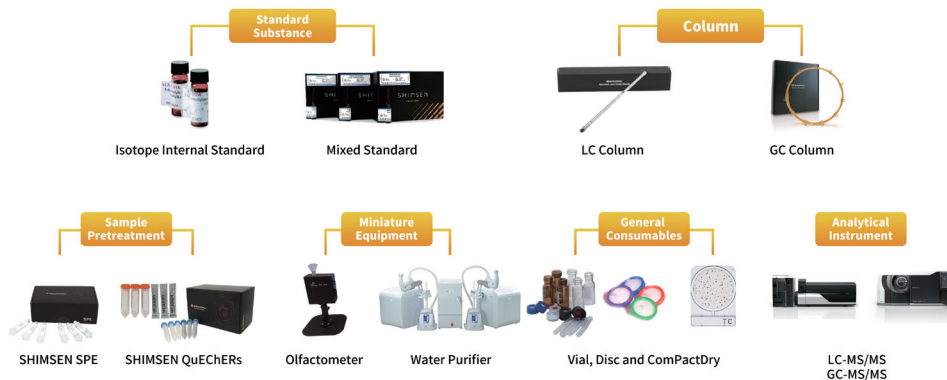




Food Safety Supplies Selection Guide

SHIMADZU Total Solution of Lab Supplies

Make Food Safety Analysis Easier



1

Pesticide Residues

6

Veterinary Drug Residues

10

Food Additives

12

Mycotoxin

14

Pollutants

16

Specific SPE Cartridges

SGLC can provide total solutions of supplies to meet the needs of time-saving sample preparation and the analysis of hundreds of pesticides and their metabolites, including sample pre-treatment, columns, standards substance, and so on.

Sample Pretreatment

SPE One-step Column
QuEChERS Equipment. for Sample Pretreatment



Vial & Disc

SHIMSEN Styra SPE

SHIMSEN QuEChERS

SHIMSEN QPet & QVet

Sample Pre-treatment

Standard Substance

Organic Mixed Standard Isotope Internal Standard
Instrument Calibration

Chromatographic Column

LC Column
GC Column

General Consumables & accessory

Accessory for Shimdzu instrument
General lab supplies

SHIMADZU Analytical Instrument



High-performance Columns

SH Series GC Columns Shim-pack Series LC Columns
SK Series GC Columns ShimNex Series LC Columns



SHIMSEN Mixed Standard



Determination of hundreds of pesticides and metabolites residues in foods of plant origin (QuEChERS & GC-MS/MS Method, GB 23200.113)

Products kit of QuEChERS method(GB 23200.113)		
Cat. No.	Product Description	
380-00149	SHIMSEN QuEChERS extraction Salt packet	4g MgSO ₄ , 1g NaCl, 0.5g DHS, 1g TSCD, 50/P
380-00152		6g MgSO ₄ , 1.5g NaOAc, 50/P
380-00171	Ceramic Homogenizers for 50mL tube, 100/P	
380-00123	SHIMSEN QuEChERS in 15 mL centrifuge tube	150 mg PSA, 900 mg MgSO ₄ , 50/P
380-00122		150 mg PSA, 15 mg GCB, 900 mg MgSO ₄ , 50/P
380-00129		400 mg PSA, 400 mg C18, 1200 mg MgSO ₄ , 50/P
380-00145		400 mg PSA, 400 mg C18, 200 mg GCB, 1200 mg MgSO ₄ , 50/P
221-75777-30	GC column	SH-1701, 30m×0.25mm×0.25μm
380-03368	Mix standard solution	208 pesticides and metabolites (containing IS, 50μg/mL)

*For more product information, please contact us.
E-mail:contact@sglc.shimadzu.com.cn



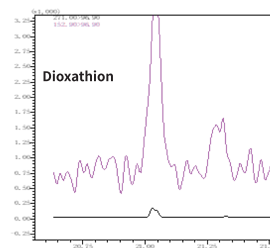
Tips during concentration

- ① N₂ flow is moderate.
- ② Do not dry solutions of the analytes completely.

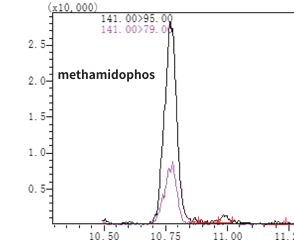
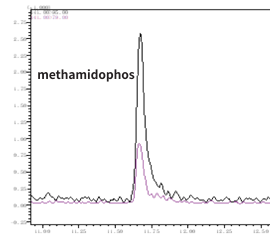
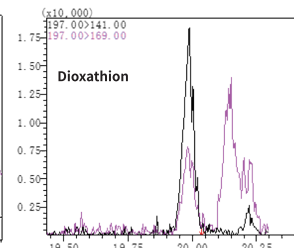


Mix standard solution at other concentration	
380-03387	208 pesticides and metabolites (10μg/mL, containing IS)
380-03422	208 pesticides and metabolites (100μg/mL, containing IS)

Other branded 1701MS column



Shimadzu SH-1701 column



Chromatograms of a same sample using different columns (GB 23200.113)

Determination of hundreds of pesticides and metabolites residues in foods of plant origin (QuEChERS & LC-MS/MS Method, GB 23200.121)

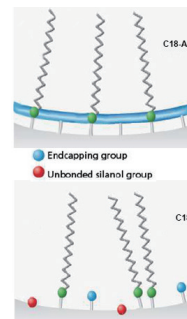
Products kit of QuEChERS method(GB 23200.121)		
Cat. No.	Product Description	
380-00149	SHIMSEN QuEChERS extraction Salt packet	4g MgSO ₄ , 1g NaCl, 0.5g DHS, 1g TSCD, 50/P
380-00152		6g MgSO ₄ , 1.5g NaOAc, 50/P
380-00171	Ceramic Homogenizers for 50mL tube, 100/P	
380-00195	SHIMSEN QuEChERS in 15 mL centrifuge tube	30 mg PSA, 900 mg MgSO ₄ , 50/P
380-00196-01		30 mg PSA, 15 mg GCB, 900 mg MgSO ₄ , 50/P
380-00197		80 mg PSA, 400 mg C18, 1200 mg MgSO ₄ , 50/P
380-00197-02		30 mg PSA, 300 mg C18, 900 mg MgSO ₄ , 50/P
380-00145	LC column	400 mg PSA, 400 mg C18, 200 mg GCB, 1200 mg MgSO ₄ , 50/P
227-30807-02		Shim-pack GIST C18-AQ, 1.9 μ m, 2.1 $\times$ 100mm
380-03635	Mix standard solution	331 pesticides and metabolites (20 μ g/mL)

*For more product information, please contact us.
E-mail:contact@sglc.shimadzu.com.cn

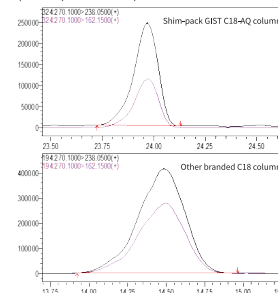
Shim-pack GIST C18-AQ

Shim-pack GIST C18-AQ achieves strong retention of hydrophilic highly polar compounds compared to general C18 columns, while maintaining high inertness and durability in highly or 100% aqueous mobile phases.

Shim-pack GIST C18-AQ is also able to reduce the absorption of basic and acidic compounds and achieve superior peak shapes in the analysis of metal complexes.



Chromatograms of a same sample using different columns (alachlor, GB 23200.121)

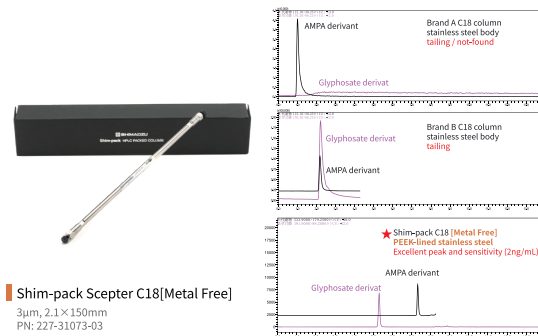
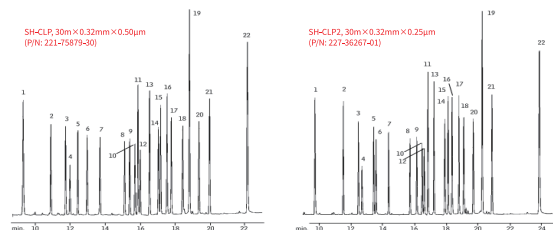
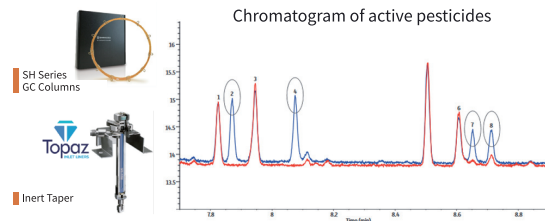


SHIMSEN QuEChERS
for determination of pesticides
residues in foods of plant origin

Sample	Example	Sample Weight	Water Added	Extraction System	Extraction Salt	Clean-up System	Clean-up Tube
General vegetable, fruit and mushroom	Pear, turnip, shii-take	10g	No	10mL MeCN	380-00149	6mL	380-00195
Dark vegetables, fruit and mushroom	Spinach, grape, eggplant	10g	No		380-00149	6mL	380-00196-01
Vegetable oil	Soybean oil, peanut oil	2g	5mL		380-00149	6mL	380-00197
Cereal, oil crop and nut	Rice, peanut, almond	5g	10mL	10mL of 1% HOAc in MeCN	380-00152	6mL	380-00197-02
Tea and spice	Green tea, black tea, pepper	2g	10mL		380-00152	6mL	380-00145

Matching methods of various test standards

SHIMSEN Styra SPE cartridges for sample pretreatment		
Cat. No.	Product Description	
380-00869-02	GCB, 500mg/6mL, 30pcs	
380-00868-04	GCB/NH2, 500mg/500mg/6mL, 30pcs	
380-00869-01	GCB/PSA, 500mg/500mg/6mL, 30pcs	
380-00862-01	FL-PR, 500mg/6mL	
380-00877-10	Columns for special application	Plant growth regulator(PGR)
380-00877-28		Glyphosate
380-00877-02		Pesticide residues in tea
Shimadzu high-performace column with excellent stability		
Cat. No.	Product Description	
SH Series GC columns	General columns for GC-MS Method	SH-I-5Sil MS, 30m×0.25mm×0.25µm, PN: 221-75954-30
		SH-I-17Sil MS, 30m×0.25mm×0.25µm, PN: 221-75916-30
	SH-CLP/SH-CLP II, PN: 221-75879-30 & 227-36267-01 Dedicated columns for organochlorine pesticides; best column combination for EPA Method 8081	
	SH-OPP, PN: 221-75887-30 Dedicated column for organophosphorus pesticides; best column combination for US EPA Method 8141	
Shim-pack series LC columns	Shim-pack GIST C18-AQ, 1.9µm, 2.1×100mm, PN: 227-30807-02	
	Shim-pack Scepter C18, 1.9µm, 2.1×100mm, PN: 227-31012-05	
Metal Free series ultra-high-stability columns	Shim-pack Scepter C18[Metal Free], 3µm, 2.1×150mm, PN: 227-31073-03 An inert column designed for ultra-high-performance analysis for PFOS, glyphosate and mycotoxins. All wetted surfaces including the column body and frit are metal-free.	



Ultra-efficient and sample-operated

SHIMSEN Q series one-step pretreatment cartridges, which can apply to **pesticide residues** in various matrix, even animal-based matrix

SHIMSEN QPet & QVet Series One-Step Pretreatment cartridges		
Cat. No.	Product Description	Range of Application
380-00925-01	SHIMSEN QPet CE+ 50PK	Cereal, oil crop and nut
380-00925-02	SHIMSEN QPet CH+ 50PK	Dark vegetables, fruit and mushroom
380-00925-03	SHIMSEN QPet GE+ 50PK	General vegetable, fruit and mushroom
380-00925-04	SHIMSEN QPet TEA+ 50PK	Green tea
380-00925-20	SHIMSEN QPet BLK+ 50PK	Black tea
380-00925-05	SHIMSEN QPet EGG+ 50PK	Egg
380-00925-12	SHIMSEN QVet NM+ 50PK	Food of animal origin
380-00925-16	Electric Press Instruments	Batch positive-press operation based on SHIMSEN Q series column

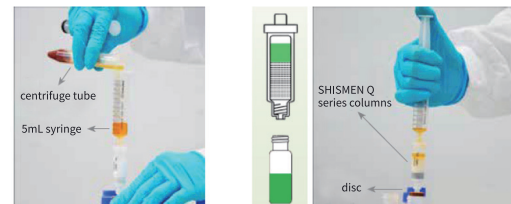
* SHIMSEN Q series negative-press columns are also available.

*For more product information, please contact us.
E-mail: contact@sglc.shimadzu.com.cn

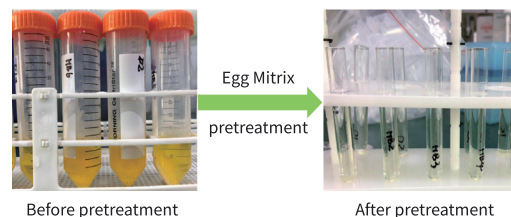


Recommend to use high-stability SHIMSEN disc hydrophilic PTFE (PN: 380-00341) to ensure recovery and repeatability.

■ Process Diagram (Positive-press)



* SHIMSEN Q series column can be used with SHIMSEN QuEChERS extraction salt together.



Why choose One-step pretreatment

- Sample operation
- Time cost less than **60%**
- Organic solution cost less than **50%**

Make sample pretreatment easier and faster

SGLC can provide total solutions of supplies to meet the needs of time-saving sample preparation and the analysis of hundreds of **veterinary drugs** and their metabolites, including sample pre-treatment, columns, standards substance, and so on.

Sample Pretreatment

SPE

One-step Column

QuEChERS

Equipment. for Sample Pretreatment

Standard Substance

Organic Mixed Standard

Isotope Internal Standard

Instrument Calibration

Chromatographic Column

LC Column

GC Column

General Consumables & accessory

Accessory for Shimadzu instrument

General lab supplies



Vial & Disc



SHIMSEN Styra SPE



SHIMSEN QuEChERS



SHIMSEN QPet & QVet

Sample Pre-treatment

SHIMADZU Analytical Instrument



High-performance Columns



SHIMSEN Mixed Standard

SH Series GC Columns
SK Series GC Columns

Shim-pack Series LC Columns
ShimNex Series LC Columns



Matching methods of various test standards

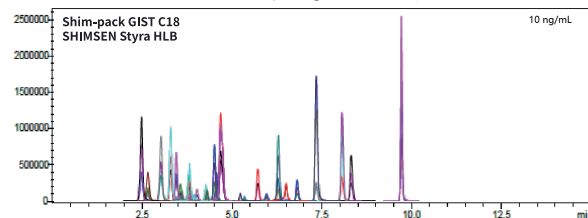
SHIMSEN Styra SPE cartridges for Sample Pretreatment		
Cat. No.	Product Description	Range of Application
380-00853-03	HLB, 60mg/3mL, 50pcs	General Veterinary Drugs
380-00855-16	HLB-A, 150mg/6mL, 30pcs	General Veterinary Drugs
380-00583-01	MCX, 60mg/3mL, 50pcs	Basic Veterinary Drugs
380-00854-01	MAX, 60mg/3mL, 50pcs	Acidic Veterinary Drugs
380-00872-03	C18, 500mg/3mL, 50pcs	General Veterinary Drugs
380-00865-07	AL-N, 1g/6mL, 30pcs	Malachite green, crystal violet
Shimadzu high-performance column with excellent stability		
SH Series GC Columns	General columns for GC-MS Method	SH-I-5Sil MS, 30m×0.25mm×0.25μm, PN: 221-75954-30
Shim-pack series LC columns	Shim-pack GIST C18-AQ, 1.9μm, 2.1×100mm, PN: 227-30807-02	
	Shim-pack GIST C18, 2μm, 2.1×100mm, PN: 227-30001-04	
	Shim-pack Scepter C18, 1.9μm, 2.1×100mm, PN: 227-31012-05	
ShimNex series LC columns	ShimNex C18, 5μm, 4.6×250mm, PN: 380-01230-01	
	ShimNex C18, 5μm, 4.6×250mm, PN: 380-01230-02	



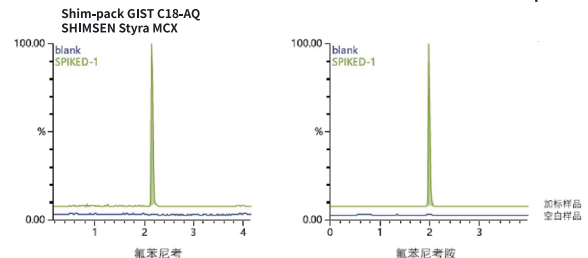
During analysis of veterinary drug residues in meat and egg, recommend to use high-stability ShimNex filter holder in order to guarantee LCMS system normal operation.

Cat. No.	Product Description
380-01214-14	ShimNex Filter Holder-0.2μm
380-01214-21	ShimNex Filter Holder-0.5μm
380-01214-16	ShimNex Filter Frit, 0.2μm, 5pcs
380-01214-18	ShimNex Filter Frit, 0.5μm, 5pcs

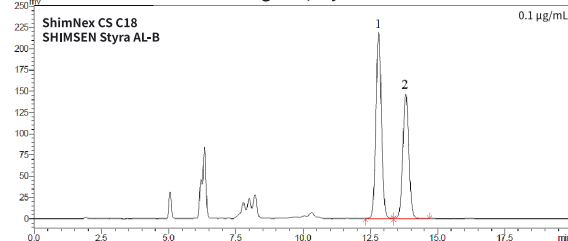
Determination of veterinary drug residues in pork



Determination of florfenicol and flufenicolamide residues in pork



Determination of malachite green, crystal violet residues in fish



Multi-residue veterinary drug analysis by SHIMSEN QuEChERS and LC-MS/MS

SGLC can provide total solutions of supplies to meet the needs of time-saving sample preparation and the analysis of hundreds of veterinary drugs and their metabolites.

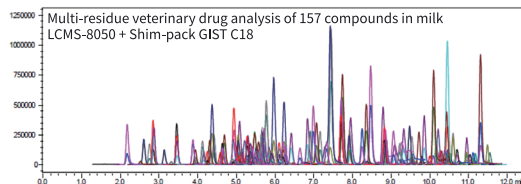
Multi-residue veterinary drug analysis based on SHIMSEN QuEChERS

Cat. No.	Product Description
SHIMSEN QuEChERS for veterinary drugs in food of animal origin	
380-00155	SHIMSEN QuEChERS Extraction Salts with 50mL Centrifuge Tube for Vet Drugs in Foods, 50/P
380-00112	SHIMSEN QuEChERS dSPE, 2mL, for Vet Drugs in Foods, 100/P
380-00147	SHIMSEN QuEChERS dSPE, 15mL, for Vet Drugs in Foods, 50/P
High-performance columns for LC-MS/MS analysis	
227-30807-02	Shim-pack GIST C18-AQ, 1.9 μ m, 2.1 $\times$ 100mm
227-30001-04	Shim-pack GIST C18, 2 μ m, 2.1 $\times$ 100mm
227-31012-05	Shim-pack Scepter C18, 1.9 μ m, 2.1 $\times$ 100mm

*For more product information, please contact us.
E-mail: contact@sglc.shimadzu.com.cn



During analysis of veterinary drug residues, recommend to use SHIMSEN arc vial(amber glass, PN: 380-00451-31) in order to avoid the photolysis.

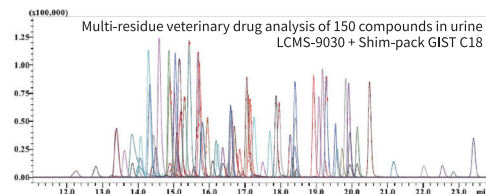


Multi-residue veterinary drug analysis

LCMS-QTOF-030	150 compounds in urine
SGLC-LCMS-022	157 compounds in milk
SGLC-LCMS-023	132 compounds in pork
SGLC-LCMS-013	Adamantanamine in chicken
SGLC-LCMS-019	Fipronil in egg
SGLC-LCMS-024	Abamectin in honey
SGLC-LCMS-026	Abamectin in beef

Range of application

Sulfonamide	Sterols
Quinolone	NSAID
Chloramphenicol	Sedative
Nitroimidazoles	Coccidiostat
Adamantanamine	Psychoactive drug
Fipronil	Estrogen
Abamectins	Glucocorticoid
Benzimidazole	Progestational hormone



Ultra-efficient and sample-operated

SHIMSEN Q series one-step pretreatment cartridges, which can apply to **veterinary drug residues** in various matrix of animal origin, such as meat, egg, milk and so on.



SHIMSEN QPet & QVet Series One-Step Pretreatment cartridges

Cat. No.	Product Description	Range of Application
380-00925-12	SHIMSEN QVet NM+, 50PK, 5g/5mL	General veterinary drug
380-00925-06	SHIMSEN QVet AG+, 50PK, 5g/5mL	Receptor agonist
380-00925-09	SHIMSEN QVet HP+, 50PK, 5g/5mL	Highly polar veterinary drug
380-00925-16	Electric Press Instruments	Batch positive-press operation based on SHIMSEN Q series column
* SHIMSEN Q series negative-press columns are also available.		
380-00925-13	SHIMSEN QVet NM, 50PK, 2g/6mL	General veterinary drug
380-00925-07	SHIMSEN QVet AG, 50PK, 2g/6mL	Receptor agonist
380-00925-10	SHIMSEN QVet HP, 50PK, 2g/6mL	Highly polar veterinary drug

*For more product information, please contact us.
E-mail: contact@sglc.shimadzu.com.cn



During analysis of veterinary drug residues, recommend to use SHIMSEN arc vial(amber glass, PN: 380-00451-31) in order to avoid the photolysis.

SHIMSEN QVet series one-step pretreatment cartridges

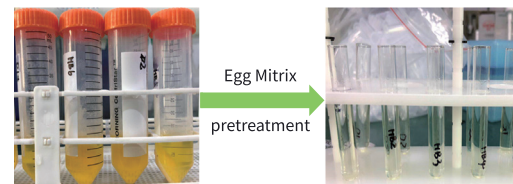


- Excellent lipid-removal ability
- Quinolone
- Ensurance of recovery and repeatability

Process Diagram (Positive-press)

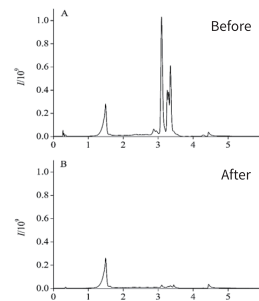


* SHIMSEN Q series column can be used with SHIMSEN QuEChers extraction salt together.

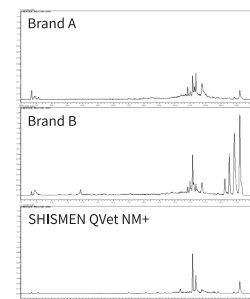


Before pretreatment

After pretreatment



MRM chromatogram of extraction solution before and after pretreatment (Fish, $m/z=184$, precursor ion scan)



MRM chromatogram of pretreatment result based on different brands of one-step columns (Pork, $m/z=184$, precursor ion scan)



SGLC provide total solution to analysis of food additives, including sample pretreatment, columns, standard substance and general lab supplies.

- | | |
|---------------------|----------------------|
| □ Acidity regulator | □ Emulgator |
| □ Anti-caking agent | □ Humectant |
| □ Defoaming agent | □ Preservative |
| □ Antioxidant | □ Stabilizer |
| □ Bleacher | □ Sweetening agent |
| □ Raising agent | □ Thickening agent |
| □ Colorant | □ Nutrition enhancer |
| □ Color fixative | □ Spice and flavor |

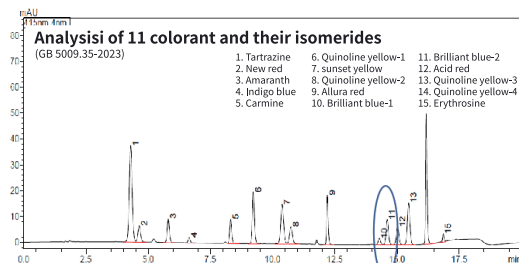
Time-saving Analysis of Colorants(GB 5009.35-2023)

Cat. No.	Product Description
380-01230-02	ShimNex CS C18, 5μm, 4.6×150mm
380-03615	Mixed Standard of 11 Colorants
380-00852-02	SHIMSEN Styra PGM, 15mg/6mL, SPE cartridge for colorants
380-00341	SHIMSEN Disc Hydrophilic PTFE, 13 mm, 0.22 μm, 100/box

Analysis of Antioxidants(GB 5009.32-2016)

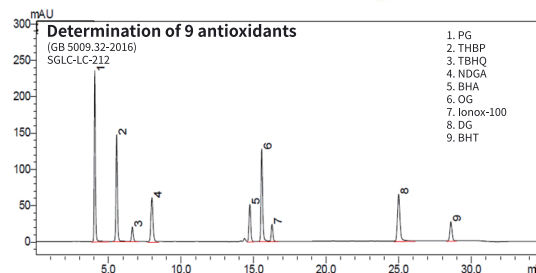
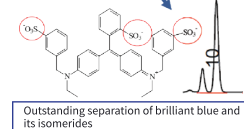
Cat. No.	Product Description
308-01230-01	ShimNex CS C18, 5μm, 4.6×250mm
221-75954-30	SH-I-5Sil MS, 30m×0.25mm×0.25μm
380-03302	9 antioxidants mix solution, 1000μg/mL
380-00900	SHIMSEN Antioxidants SPE cartridges, 2g/12mL

*For more product information, please contact us.
E-mail:contact@sglc.shimadzu.com.cn



The whole analysis process
can be completed in 20 min

ShimNex CS C18
5μm, 4.6mm×150mm
PN: 380-01230-02



Packing material of ordinary commercial C18 columns is slightly alkaine while making surface end-cap with basic groups. It's easily to absorb acidic compounds resulting in peak tailing.

Acidic water solution is always used as mobile phase during analysis of organic acids. It makes C18 bonding groups hydrophobic-collapse and column efficiency reduced.

Choose Shimaduu C18-AQ columns to solve these problems.

Analysis of Preservatives(GB 5009.28, GB 5009.121 and GB/T 5009.140)

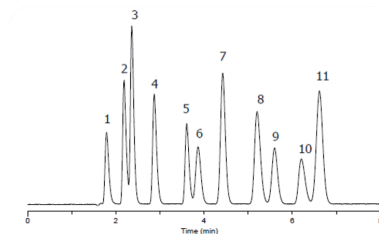
Cat. No.	Product Description
380-01238-43	ShimNex HE C18-AQ , 5μm, 4.6×250mm
380-01211-98	ShimNex HE (G) C18-AQ , 5μm, 4.6 x 10mm with Cartridge (2pcs)
227-36248-01	SH-Polar Wax, 30m×0.25mm×0.25μm
227-75981-30	SH-Polar D, 30m×0.25mm×0.25μm

Analysis of Organic Acids(GB 5009.157 and GB/T 40179)

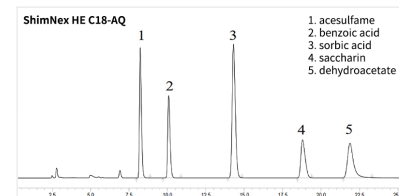
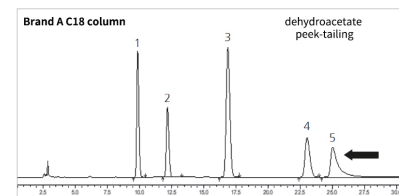
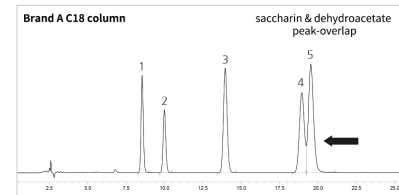
Cat. No.	Product Description
227-30742-07	Shim-pack GIST C18-AQ , 5μm, 4.6×250mm (HPLC)
227-30807-02	Shim-pack GIST C18-AQ , 1.9μm, 2.1×100mm (LC-MS/MS)
380-03306	5 organic acids mix solution, 100μg/mL
380-09908	6 organic acids mix solution



During analysis of food additives, recommend to use ShimNex guard column in order to avoid pollution on analysis columns.



Analysis of 5 preservatives



ShimNex HE C18-AQ

5μm, 4.6×250mm

Mobile phase:

0.02 M ammonium acetate in water: methyl alcohol = 95:5(V/V)

Flow: 1.0 mL/min Tem.: 30°C Det.: UV 230 nm



Determination of 11 organic acid

Shim-pack GIST C18-AQ

5μm, 4.6×150mm

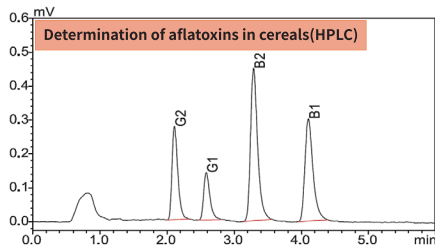
Mobile Phase:

50mmol/L NaH₂PO₄ in water(pH=2.1, H₃PO₄)

Flow: 1.0mL/min Tem.: 40°C Det.: UV 210nm

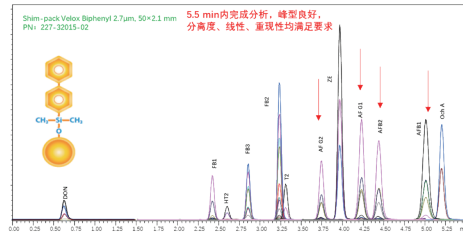


Mycotoxin contamination is a major global public health issue, causing harm to human and animal health. SGLC can provide total solutions of lab supplies to meet the needs of sample preparation and analysis of mycotoxin, including IAC cartridges, standard substance, columns and so on.



■ According to standard

- **HPLC method**
Shim-pack GIST C18
5μm, 4.6x250mm
PN: 227-30017-08
- **LC-MS/MS method**
Shim-pack GIST C18
2μm, 2.1x100mm
PN: 227-30001-04



■ Rapid analysis based on LC-MS/MS

- ① 12 mycotoxins in 5min
Shim-pack Velox Biphenyl
2.7μm, 2.1x50mm
PN: 227-32015-02
- ② 37 mycotoxins in 13min
Shim-pack Velox SP-C18
1.8μm, 2.1x100mm
PN: 227-32001-03

SGLC Solutions for Mycotoxin in Food

*For more product information, please contact us.
E-mail:contact@sglc.shimadzu.com.cn

Standard	Method	Sample Pretreatment	Standard Substance	Columns
GB 5009.22-2016 Aflatoxins B Aflatoxins G	Isotopic Dilution LC-MS/MS	SHIMSEN 228 Clean-up Column (Patulin, Aflatoxin B1, B2, G1, G2) PN: 380-00902	Aflatoxin B1, B2, G1, G2, 10μg/mL, PN: 380-03279	Shim-pack GIST C18, 2 μm, 2.1×100mm, PN: 227-30001-04
	Pre-column derivation HPLC		Aflatoxin B1, G1, 10μg/mL Aflatoxin B2, G2, 3μg/mL PN: 380-03396	Shim-pack GIST C18, 2 μm, 2.1×100mm, PN: 227-30001-04
	Post-column derivation HPLC			With derivator: PN: 227-30001-04 Shim-pack GIST C18, 2 μm, 2.1×100mm, Without derivator: PN: 227-30017-07 Shim-pack GIST C18, 5 μm, 4.6×150mm
GB 5009.22-2016 Aflatoxins M	Isotopic Dilution LC-MS/MS	SHIMSEN IAC (Aflatoxin M1, M2), 3mL, PN: 380-00908	Aflatoxin M1, 10μg/mL PN: 380-03466	Shim-pack GIST C18, 2 μm, 2.1×100mm, PN: 227-30001-04
	HPLC		Aflatoxin M2, 10μg/mL PN: 380-03465	Shim-pack GIST C18, 5 μm, 4.6×150mm PN: 227-30017-07

Standard	Method	Sample Pretreatment	Standard Substance	Columns
GB 5009.111-2016 Deoxynivalenol and its acetylated derivatives	Isotopic Dilution LC-MS/MS	SHIMSEN Styra HLB, 200mg/6mL PN: 380-00855-10	DON, 100µg/mL, PN: 380-03391 3-ADON, 100µg/mL, PN: 380-03464 15-ADON, 100µg/mL, PN: 380-03463	Shim-pack GIST C18, 2µm, 2.1×100mm PN: 227-30001-04
	Immunochromatography HPLC	SHIMSEN IAC(DON), 3mL, PN: 380-00912	DON, 100µg/mL, PN: 380-03391	Shim-pack GIST C18, 5µm, 4.6×150mm PN: 227-30017-07
GB 5009.96-2016 Ochratoxin A	Immunochromatography HPLC	SHIMSEN IAC(OTA), 3mL, PN: 380-00914	OTA, 10µg/mL, PN: 380-03398	Shim-pack GIST C18, 5µm, 4.6×150mm PN: 227-30017-07
	Ion-exchange HPLC	SHIMSEN Styra HLB, 150mg/3mL PN: 380-00854-06		Shim-pack GIST C18-AQ, 3µm, 2.1×100mm PN: 227-30721-05
	Immunochromatography LC-MS/MS	SHIMSEN IAC(OTA), 3mL, PN: 380-00914		
GB 5009.209-2016 Zearalenone	HPLC	SHIMSEN IAC(ZEN), 3mL, PN: 380-00916	ZEN, 100µg/mL, PN: 380-03390	Shim-pack GIST C18-AQ, 3µm, 4.6×150mm PN: 227-30724-07
	LC-MS/MS	SHIMSEN Styra HLB, 500mg/6mL PN: 380-00855-07		Shim-pack GIST C18, 2µm, 2.1×50mm PN: 227-30001-02
GB 5009.185-2016 Patulin	Isotopic Dilution LC-MS/MS	SHIMSEN 228 Clean-up Column (Patulin, Aflatoxin B1, B2, G1, G2) PN: 380-00902	Patulin, 100µg/mL, PN: 380-03392	Shim-pack GIST C18, 1.9µm, 2.1×100mm PN: 227-30807-02
	Immunochromatography HPLC			Shim-pack GIST C18-AQ, 3µm, 4.6×150mm PN: 227-30724-07

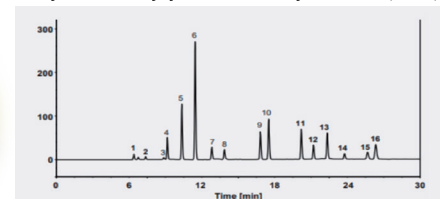
*For more product information, please contact us.
E-mail:contact@sglc.shimadzu.com.cn

Food will absorb pollutants in the environment during production, processing, circulation and storage causing harm to human and animal health.

SGLC can provide total solutions of lab supplies to meet the needs of sample preparation and analysis of pollutants, including SPE cartridges, standard substance, columns and so on.



Analysis of 16 Polycyclic Aromatic Hydrocarbon(PAHs)



ShimNex S-C18-PAH

5 μ m, 4.6 $\times$ 250mm, PN: 380-01247-23

Mobile Phase:

A) Water, B) ACN Inj. Vol.:5 μ L

Flow Rate: 1.5mL/min Tem.: 25°C Det.: UV at 254nm

Time(Min)	0	2	20	30
A%	40	40	0	0
B%	60	60	100	100

SGLC Solutions for Pollutants in Food

*For more product information, please contact us.
E-mail: contact@sglc.shimadzu.com.cn

Standard	Method	Sample Pretreatment	Standard Substance	Columns
GB 5009.27-2016 Benzopyrene	HPLC	SHIMSEN Styra BaP, 22 g / 60 mL, 10pcs PN: 380-00877-21 SHIMSEN Styra SS Rack 6-Ports, 1pcs PN: 380-00877-26 SHIMSEN Styra SS needle, 50pcs PN: 380-00877-27	16 PAHs, 200 μ g/mL PN: 380-03341	ShimNex S-C18-PAH, 5 μ m, 4.6 $\times$ 250mm, PN: 380-01247-23
GB 5009.265-2016 Polycyclic Aromatic Hydrocarbons (PAHs)	HPLC	SHIMSEN QuEChERS, 150mg PSA, 150mg C18, 900mg MgSO ₄ , 15mL, 50pcs PN: 380-00128		SH-I-5Si1 MS, 30m $\times$ 0.25mm $\times$ 0.25 μ m PN: 221-75954-30
	GCMS	SHIMSEN Styra FL-PR, 500mg/3mL, 5pcs PN: 380-00862-02		
GB 5009.26-2023 N-dimethylnitrosamine (NDMA)	GC-MS/MS	SHIMSEN QuEChERS Extraction Salts for NDMA in Food, 50/P PN: 380-00147-03 SHIMSEN QuEChERS dSPE, 15mL, for NDMA in Food, 50/P PN: 380-00147-04 SHIMSEN QuEChERS dSPE, 15mL, 1.6g MgSO ₄ , 0.4g NaCl for NDMA in Food, 50/P, PN: 380-00147-07	9 Nitrosamines Mix Solution, 2000 μ g/mL PN: 380-03287	SH-PolarX, 30m $\times$ 0.25mm $\times$ 0.25 μ m PN: 227-36294-01

Standard	Method	Sample Pretreatment	Standard Substance	Columns
GB 5009.190-2014 Polychlorinated Biphenyls (PCBs)	Isotopic Dilution GCMS	/	7 PCBs, 100µg/mL, PN: 380-03335	SH-I-5SiI MS 0.25µm, 0.25mm*30m, PN: 221-75954-30
	GC	/		
GB 5009.271-2016 Phthalate Esters (PAEs)	Isotopic Dilution GCMS	SHIMSEN Styra Glass PSA/SI, 500mg/500mg/6mL, 50/包, PN: 380-00855-07	16 PAEs 1000µg/mL, PN: 380-03355	SH-I-5SiI MS 0.25µm, 0.25mm*30m, PN: 221-75954-30
	GCMS		18 PAEs 1000µg/mL, PN: 380-03352	
GB 5009.191-2016 Chloropropanols and Their Esters	Isotopic Dilution GCMS	/	4 Chloropropanols and their ester, 100µg/mL	SH-I-5SiI MS 0.25µm, 0.25mm*30m, PN: 221-75954-30
	GCMS	SHIMSEN Styra SLE, 5g/12mL, 100/包, PN: 380-00927-04		
GB 5009.205-2013 Dioxin	GCMS	/	/	SH-I-5SiI MS 0.25µm, 0.25mm*60m, PN: 227-36036-02 SH-2330 0.1µm, 0.25mm*60m, PN: 227-36238-02
GB 5009.204-2014 Acrylamide	Isotopic Dilution LC-MS/MS	SHIMSEN Styra HLB, 200mg/6mL, 30/包, PN: 380-00855-10	/	Shim-pack GIST C18-AQ, 5µm, 2.1x150mm, PN: 227-30739-07
	Isotopic Dilution GCMS	/	/	SH-I-5SiI MS 0.25µm, 0.25mm*30m, PN: 221-75954-30
GB 5009.262-2016 Residual Solvent	GC	/	/	SH-5 0.25µm, 0.25mm*30m, PN: 221-75701-30
GB 5009.189-2023 Bongkre Acid	HPLC	SHIMSEN Styra MAX, 60mg/3mL, 50pcs, PN: 380-00854-01	Bongkre Acid, 10 µg/mL, PN: 380-03560	Shim-pack GIST C18-AQ, 5µm, 4.6×250mm, PN: 227-30742-07
	LC-MS/MS			Shim-pack GIST C18-AQ, 1.9µm, 2.1×100mm, PN: 227-30807-02
GB 5009.266-2016 Methyl Alcohol	GC	/	/	SH-Wax, 0.25µm, 0.25mm*60m, PN: 227-36294-01



SGLC can provide glass SPE cartridges with extremely low background during analysis of pollutants in food.

SGLC provide various specific SPE cartridges for special items to be tested, like colorants, plasticizer, chloropropanol and so on. These specific SPE cartridges can be used to guaranteed recovery and repeatability.

Standard	Application Range	Cat. No.	Product Description
Pesticide Residues	Plant Growth Regulator In Bean Sprout (BJS 201703)	380-00877-10	SHIMSEN Styra PGR, 500 mg /6mL, 30pcs
	Pesticide Residues in Tea (GB/T 23204-2008, GB 23200.13-2016)	380-00877-02	SHIMSEN Styra TEA, 6mL, 30pcs
Veterinary Drug Residues	Ribavirin in food of animal origin (SN/T 4519-2016)	380-00928-01	SHIMSEN PBA SPE cartridges, 500 mg /6mL, 30pcs
	Multi-Residue Veterinary Drug Analysis	380-00855-16	SHIMSEN Styra HLB-A, 150mg/6mL 30pcs
Food Additives	Synthetic Colorants (GB 5009.35-2023)	380-00852-02	SHIMSEN Styra PGM, 150 mg /6mL, 30pcs
	Tony Red	380-00904	SHIMSEN Sudan MIPs SPE cartridges, 500 mg /6mL, 30pcs
	Diethyl yellow and Dimethyl yellow (BJS 202204)	380-00877-18	SHIMSEN Styra DMY, 3 mL, 50pcs
	Antioxidants (GB 5009.32-2016)	380-00900	SHIMSEN Antioxidants SPE cartridges, 2g /12mL, 20pcs
	Oligose in Honey	380-00877-13	SHIMSEN Styra Oligose, 12 mL, 20pcs
Organic Pollutants	Phthalate Esters(PAEs) (GB 5009.271-2016)	380-00873-08	SHIMSEN Styra GLASS PSA / SILICA, 500 mg / 500 mg /6mL, 30pcs
	Bisphenol A(BPA)	380-00873-01	SHIMSEN Styra Glass HLB, 200 mg /6mL, 30pcs
	Chloropropanol(GB 5009.191-2016)	380-00926-02	SHIMSEN PBA SPE cartridges, 500 mg /6mL, 30pcs
	Benzopyrene (GB 5009.27-2016, molecular imprinting method)	380-00901	SHIMSEN Benzopyrene MIPs SPE cartridges, 500 mg /6mL, 30pcs
	Benzopyrene (GB 5009.27-2016, solid phase extraction method)	380-00877-21	SHIMSEN Styra BaP, 22 g / 60 mL, 10pcs
		380-00877-26	SHIMSEN Styra SS Rack 6-Ports, 1pcs
		380-00877-27	SHIMSEN Styra SS needle, 50pcs
Ion Chromatography	Clean-up Aromatic compounds, hydrocarbons and organic acids	380-00877-31	SHIMSEN Styra IC-RP, 1mL, 50pcs
	Clean-up Alkaline earth metal ions, transition metal ions and carbonate ions	380-00877-32	SHIMSEN Styra IC-H, 1mL, 50pcs

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