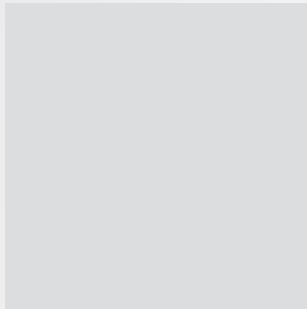


DIKMA[®]
A reliable partner for your lab

Dikma ProElut[®] SPE & Chromatography Accessories



Dikma Technologies Inc.

www.dikmatech.com | www.dimaglass.com

ProElut[®] SPE

Features of ProElut[®] SPE

- Rapid sample preparation within minutes
- Higher recoveries without the formation of emulsion
- High precision of analytical results by use of disposable cartridges
- Saving of solvent and hence reduction in both material cost and cost of disposal
- Possibilities for automating the entire process
- Optimized, validated and certified manufacturing

ProElut[®] SPE Applications

- Pharmaceutical compounds and metabolites in biological fluids
- Drugs of abuse in biological fluids
- Environmental pollutants in drinking and waste water
- Pesticides and antibiotics in food/agricultural matrices
- Desalting of proteins and peptides
- Fractionation of lipids
- Water and fat soluble vitamins



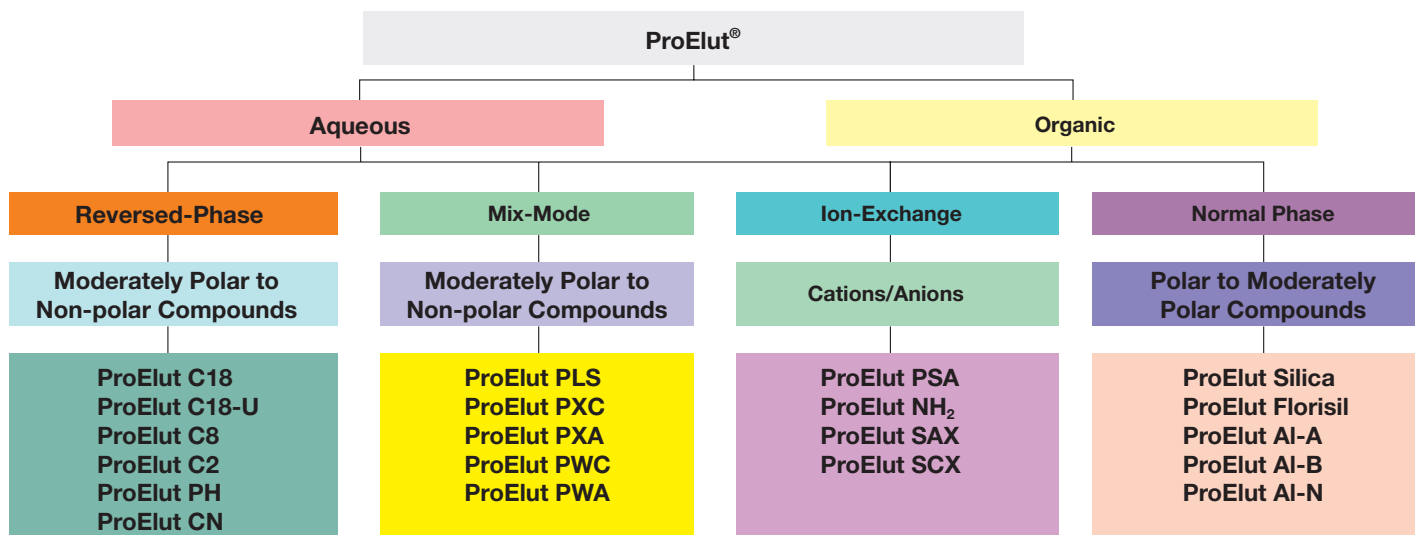
For more applications, please visit our website at www.dikmatech.com or refer to our current catalog.

Sorbent Specifications

Sorbent Phases	Category	Base Material	Particle Size (µm)	Pore Size (Å)	Surface Area (m ² /g)	Bonded Functional Group	Carbon Loading	Endcapped
PLS	Reversed phase	PS-DVB	50	80	800	Hydrophilic / lipophilic	-	-
PWC	Reversed phase, weak cation exchange	PS-DVB	50	80	800	Hydrophilic / lipophilic, carboxylic acid	-	-
PWA	Reversed phase, weak anion exchange	PS-DVB	50	80	800	Hydrophilic / lipophilic, ethylene diamine	-	-
PXC	Reversed phase, strong cation exchange	PS-DVB	50	80	800	Hydrophilic / lipophilic, sulfonic acid	-	-
PXA	Reversed phase, strong anion exchange	PS-DVB	50	80	800	Hydrophilic / lipophilic, quaternary amine	-	-
C18	Reversed phase	Silica	50	60	500	Octadecyl	17%	Yes
C18-U	Reversed phase	Silica	50	60	500	Octadecyl, silanol	17%	No
C8	Reversed phase	Silica	50	60	500	Octyl	11%	Yes
C2	Reversed phase	Silica	50	60	500	Ethyl	2.7%	Yes
PH	Reversed phase	Silica	50	60	500	Phenyl	8%	Yes
CN	Normal / reversed phase	Silica	50	60	500	Cyanopropyl	6.5%	Yes
SCX	Strong cation exchange	Silica	50	60	500	Benzenesulfonic acid	10.9%	No
SAX	Strong anion exchange	Silica	50	60	500	Trimethylaminopropyl	7.5%	No
Silica	Normal phase	Silica	50	60	500	Silanol	-	No
NH ₂	Normal phase, weak anion exchange	Silica	50	60	500	Aminopropyl	3.5%	No
PSA	Normal phase, weak anion exchange	Silica	50	60	500	Ethylenediamino-N-propyl	7%	No
Al-A	Normal phase	Acidic alumina	125	-	200	Acidic alumina	-	-
Al-B	Normal phase	Basic alumina	125	-	200	Basic alumina	-	-
Al-N	Normal phase	Neutral alumina	125	-	200	Neutral alumina	-	-
Florisil	Normal phase	Magnesium	150-200	-	-	-	-	-
CARB	Nonbonded carbon phase	Carbon	38-125	-	100	-	-	-



SPE Phase Selection



Brand Cross Reference

Dikma	Waters	Agilent	Supelco	Phenomenex
Polymer-based Sorbent				
ProElut [®] PLS	Oasis HLB	BondElut Plexa	Supel-Select HLB	Strata X
ProElut [®] PLS-A	Oasis HLB PRIME	—	—	—
ProElut [®] PXC	Oasis MCX	BondElut Plexa PCX	Supel-Select SCX	Strata X-C
ProElut [®] PXA	Oasis MAX	BondElut Plexa PAX	Supel-Select SAX	Strata X-A
ProElut [®] PWC	Oasis WCX	—	—	Strata X-CW
ProElut [®] PWA	Oasis WAX	—	—	—
ProElut [®] PWA-2	—	—	—	Strata X-AW
Silica-based Sorbent				
ProElut [®] C18	Sep-pak tC18	BondElut C18	ENVI-18, LC-C18, DSC-18	Strata C18-E
ProElut [®] C18-U	Sep-pak C18	BondElut C18-OH	—	Strata C18-U
ProElut [®] C8	Sep-pak C8	BondElut C8	ENVI-8, LC-8, DSC-8	Strata C8
ProElut [®] C2	Sep-pak tC2	BondElut C2	—	—
ProElut [®] PH	—	BondElut PH	LC-PH, DSC-PH	Strata PH
ProElut [®] CN	Sep-pak CN	BondElut CN	LC-CN, DSC-CN	Strata CN
ProElut [®] NH ₂	Sep-pak NH ₂	BondElut NH ₂	LC-NH ₂ , DSC-NH ₂	Strata NH ₂
ProElut [®] PSA	—	BondElut PSA	Supelclean PSA	—
ProElut [®] Silica	Sep-pak Silica	BondElut Silica	LC-Silica, DSC-Silica	Strata Si-1
ProElut [®] SCX	—	BondElut SCX	LC-SCX, DSC-SCX	Strata SCX
ProElut [®] SAX	—	BondElut SAX	LC-SAX, DSC-SAX	Strata SAX
Inorganic Material				
ProElut [®] Florisil	Sep-Pak Florisil	BondElut Florisil	LC Florisil, ENVI-Florisil	Strata FL-PR
ProElut [®] AL-A	Sep-Pak Alumina-A	BondElut Alumina A	LC Alumina A	—
ProElut [®] AL-N	Sep-Pak Alumina-N	BondElut Alumina N	LC Alumina N	Strata Alumina-N
ProElut [®] AL-B	Sep-Pak Alumina-B	BondElut Alumina B	LC Alumina B	—
ProElut [®] CARB	—	BondElut Carbon	ENVI Carb	—
ProElut [®] AC	Sep-Pak AC2	—	—	—
Double Layer Sorbent				
ProElut [®] CARB/NH ₂	Sep-Pak Carbon/Amino	BondElut Carbon/NH ₂	ENVI Carb-II/NH ₂	—
ProElut [®] CARB/PSA	—	BondElut Carbon/PSA	ENVI Carb-II/PSA	—
ProElut [®] SAX/PSA	—	—	—	—

ProElut® AC (Activated Carbon)

- Packing of activated carbon
- Widely used in analysis of acrylamide in water

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® AC	250 mg	3 mL	50	65907
	500 mg	6 mL	30	65908
	2 g	12 mL	20	65356

ProElut® CARB / NH₂

- Packing of equivalent volume of CARB and amine (NH₂)
- Widely used in analysis of pesticide residues (many different varieties) in foods. To remove pigments, fatty acids, and phenols from analytes

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® CARB / NH ₂	250 mg / 250 mg	6 mL	30	64106
	500 mg / 500 mg	6 mL	30	64105
	500 mg / 500 mg	20 mL	20	64108

ProElut® CARB / PSA

- Packing of equivalent volume of CARB and PSA
- Widely used in analysis of pesticide residues (many different varieties) in foods

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® CARB / PSA	250 mg / 250 mg	6 mL	30	64206
	500 mg / 500 mg	6 mL	30	64205
	500 mg / 500 mg	20 mL	20	64208

ProElut® SAX / PSA

- Packing of equivalent volume of SAX and PSA
- Widely used in analysis of pesticide residues (many different varieties) in foods

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® SAX / PSA	250 mg / 250 mg	6 mL	30	64306
	500 mg / 500 mg	6 mL	30	64305

ProElut® LLE+ (Liquid-Liquid Extraction)

Classical liquid-liquid extraction using a separation funnel is often associated with certain disadvantages: formation of emulsion, poor phase separation, high solvent consumption, low degree of automation and high personnel cost. However, liquid-liquid extraction can be made more efficient by using ProElut® LLE+ cartridges. The simple and excellent performance of ProElut® LLE+ cartridges eliminate emulsions and therefore result in higher recoveries and cleaner extractions.



Ordering Information

Description	Max Sample Volume* (mL)	Qty	Cat. No.
LLE+	1	100/pk	62502
	3	100/pk	62503
	5	100/pk	62504
	10	100/pk	62505
	20	100/pk	62506

* The recommended sample volume must be adhered to: solutions of smaller volume must be diluted to give indicated volume.

ProElut® DNPH-Silica

Theory of Operation

ProElut® DNPH-Silica cartridges trap aldehydes and ketones in gasses by reacting them with the DNPH-Silica in the cartridge to form stable hydrazone derivatives. The derivatization reaction takes place during sample collection. The derivatives are later eluated and analyzed.



Ordering Information

Description	Mass	Qty	Cat. No
ProElut® DNPH-Silica	400 mg	20	65913
ProElut® DNPH-Silica, DAUL	400 mg	20	65922

ProElut® BaP

- Specially designed for analysis of benzopyrene

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® BaP	22 g	60 mL	10	65351
Matching accessories				
SS Rack 6-Ports for BaP			1	4802
SS Needle for BaP			50	1095

ProElut® PAEs GLASS

- Specially designed for analysis of PAEs in fats

Ordering Information

Description	Volume	Qty	Cat. No
ProElut® PAEs GLASS	6 mL	30	65919G

ProElut® PSX GLASS

- Specially designed for analysis of PAEs in textiles

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® PSX GLASS	700 mg	6 mL	30	64365G

ProElut® PLS GLASS

- Specially designed for analysis of bisphenol A in plastic bottles

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® PLS GLASS	200 mg	6 mL	30	68012G

ProElut® Melamine

- Specially designed for analysis of melamine

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® Melamine	60 mg	3 mL	50	65355

ProElut® DPC

- Specially designed for analysis of residues of pesticide, veterinary drugs

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® DPC	3 g	12 mL	20	65353

ProElut® AZO

- Specially designed for determination of banned azo colourant in textiles

Ordering Information

Description	Qty	Cat. No
ProElut® AZO	50	62551
Matching accessories		
SS Rack 6-Ports for AZO	1	4802

ProElut® TPC

- Specially designed for analysis of pesticide residues in tea

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® TPC	1200 mg	6 mL	30	65360
		12 mL	20	65354

ProElut® AFT

- Specially designed for analysis of aflatoxin

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® AFT, For Aflatoxin in Dairy Products	1500 mg	12 mL	20	65904
ProElut® AFT-2, For Aflatoxin in Fats	2400 mg	12 mL	20	65906
ProElut® AFT-3, For Rapid Purification	—	12 mL	20	65915

ProElut® VDC

- Specially designed for analysis of vitamin D2, D3

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® VDC	2 g	12 mL	20	65358

ProElut® GPR

- Specially designed for analysis of pesticide residues in Chinese medicine

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® GPR	1.5 g	12 mL	20	65352

ProElut® PSC

- Specially designed for analysis of pesticide residues in cereals

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® PSC	1.5 g	12 mL	20	65357

ProElut® DCD

- Specially designed for analysis of dicyandiamide

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® DCD	1 g	12 mL	20	65359

ProElut® MCS

- Specially designed for analysis of plant growth regulator

Ordering Information

Description	Mass	Volume	Qty	Cat. No
ProElut® MCS	500 mg	6 mL	30	65912

ProElut® SDH

- Specially designed for analysis of Sudan

Ordering Information

Description	Volume	Qty	Cat. No
ProElut® SDH	6 mL	30	65909





ProElut® QuEChERS

Features of ProElut® QuEChERS

- Fast, simple sample preparation for multi-residue pesticide analysis
- Wide selection, support AOAC 2007.01 and EN 15662 methods
- Provide guidance to help you choose the right products
- Pre-weighed, ultra-clean packaging
- Certified extraction salts and sorbents
- Individually sealed packages for enhanced protection and storage stability







ProElut® QuEChERS Selection Guide

Step 1: Selected Extraction Salt

Method	Material	Qty	Cat. No.
AOAC 2007.01	6 g MgSO ₄ , 1.5 g NaOAc with 50 mL Centrifuge Tube	50/pk	64520
EN 15662	4 g MgSO ₄ , 1 g NaCl, 1 g TSCD, 0.5 g DHS with 50 mL Centrifuge Tube	50/pk	64521

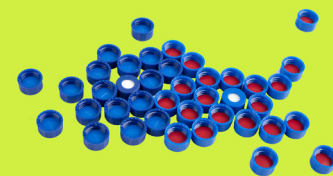
Step 2: Selected Dispersive SPE Tube

Sample Types	Method	2 mL Clean-up Tube	15 mL Clean-up Tube
 <p>General fruits and vegetables: Major interferences: organic acids, carbohydrates, phenols</p>	AOAC	50 mg PSA 150 mg MgSO ₄ Cat# 64501	400 mg PSA 1200 mg MgSO ₄ Cat# 64502
	EN	25 mg PSA 150 mg MgSO ₄ Cat# 64503	150 mg PSA 900 mg MgSO ₄ Cat# 64504
 <p>Fruits and vegetables with fats and waxes: Major interferences: lipids, sterols, organic acids, carbohydrates, phenols</p>	AOAC	50 mg PSA 50 mg C18 150 mg MgSO ₄ Cat# 64505	400 mg PSA 400 mg C18 1200 mg MgSO ₄ Cat# 64506
	EN	25 mg PSA 25 mg C18 150 mg MgSO ₄ Cat# 64507	150 mg PSA 150 mg C18 900 mg MgSO ₄ Cat# 64508
 <p>High pigment fruits and vegetables: Major interferences: chlorophyll, carotenoids, organic acids, carbohydrates, phenols. Not for use with planar pesticides</p>	AOAC	50 mg PSA 50 mg Carb 150 mg MgSO ₄ Cat# 64509	400 mg PSA 400 mg Carb 1200 mg MgSO ₄ Cat# 64510
	EN	25 mg PSA 7.5 mg Carb 150 mg MgSO ₄ Cat# 64511	150 mg PSA 45 mg Carb 900 mg MgSO ₄ Cat# 64512
 <p>Fruits and vegetables with pigments and fats: Major interferences: chlorophyll, carotenoids, lipids, organic acids, carbohydrates, phenols. Not for use with planar pesticides</p>	AOAC	50 mg PSA 50 mg C18 50 mg Carb 150 mg MgSO ₄ Cat# 64513	400 mg PSA 400 mg C18 400 mg Carb 1200 mg MgSO ₄ Cat# 64514

ProElut® QuEChERS Special Clean-up Tube

Ordering Information

Description	Volume	Qty	Cat. No.
ProElut® QuE 2 mL Tube, For Quinolone	2 mL	100	64529
ProElut® QuE 2 mL Tube, For Chloramphenicol	2 mL	100	64531
ProElut® QuE 2 mL Tube, For Organochlorine	2 mL	100	64576
ProElut® QuE 2 mL Tube, For Malachite Green	2 mL	100	64527
ProElut® QuE 2 mL Tube, For Tetracyclines	2 mL	100	64528
ProElut® QuE 2 mL Tube, For Sulfonamides	2 mL	100	64530
ProElut® QuE 15 mL Tube, For Multiple Pesticide Residues	15 mL	50	64586
ProElut® QuE 15 mL Tube, For Residues of Veterinary Drug	15 mL	50	64600



ProMax™ Syringe Filters

Features of ProMax™ Syringe Filters

- Broad range of membrane types
- HPLC and GC sample and solvent filtration
- Convenient, cost-effective
- Standard Luer lock



ProMax™ syringe filters are designed for the economical, rapid filtration of almost any solution prior to analysis. The housing attaches to any standard Luer lock syringe, so the sample can be pushed through the membrane under pressure. The resulting eluent is free from particulates and ready for use with HPLC, GC or other analytical techniques.

ProMax™ syringe filters are available in a broad range of pore sizes and membrane types. All are non-sterile. Filters made with 13 mm or 25 mm membranes are suitable for use with samples of 1 mL or greater. All filters are available in CA, Nylon, PVDF, PES, GF or PTFE membranes.

Type	Porosity (µm)	Qty	4 mm	13 mm	25 mm
ProMax™ Nylon	0.22	100/pk	30021	37177	37184
	0.45	100/pk	30022	37180	37187
ProMax™ PTFE	0.22	100/pk	30023	37178	37185
	0.45	100/pk	30024	37182	37192
ProMax™ CA	0.22	100/pk	-	30009	30011
	0.45	100/pk	-	30010	30012
ProMax™ PVDF	0.22	100/pk	-	30013	30015
	0.45	100/pk	-	30014	30016
ProMax™ PES	0.22	100/pk	-	30017	30019
	0.45	100/pk	-	30018	30020
ProMax™ GF/NY	0.45	100/pk	-	-	54839
ProMax™ GF/PTFE	0.45	100/pk	-	-	54840
ProMax™ GF/CA	0.45	100/pk	-	-	54838

2 mL Autosampler Vials

Dikma 2 mL Wide Opening Screw Thread Vials (12 x 32 mm, 9 mm)

- Superior thread design provides a more secure seal to the closure
- 40% larger neck opening versus standard opening screw top vials improve sample accessibility
- Uniformly flat bottom with inserts for security
- Write-on patches with graduations at 0.5, 1.0 and 1.5 mL
- Compatible with most HPLC / GC autosamplers



Description	Qty	Cat. No.
Clear	100/pk	5320
Clear with Label	100/pk	5321
Amber	100/pk	5322
Amber with Label	100/pk	5323

Assembled Caps and Septa for 2 mL Screw Thread Vials

- Cap manufactured from polypropylene
- Pre-assembled caps and septa are convenient and minimize contamination from handling
- Choice of liner

Description	Qty	Cat. No.
Screw Cap, Blue, Open Top, with PTFE / red rubber septa	100/pk	5324
Screw Cap, Blue, Open Top, with PTFE / white silicone septa	100/pk	5325
Screw Cap, Blue, Open Top, with PTFE / silicone / PTFE septa	100/pk	5326
Screw Cap, Black, Open Top, with Pre-slit PTFE / silicone septa	100/pk	5327
Screw Cap, Blue, Open Top, with PTFE / ULB silicone septa	100/pk	5328
Screw Cap, Blue, Open Top, with Pre-slit PTFE / ULB silicone septa	100/pk	5329



About Dikma

Dikma Technologies Inc., established in 1993, is a global technology leader committed to developing novel separation and purification solutions for life sciences and related industries. Our core technology portfolio includes products for liquid chromatography, gas chromatography, sample preparation, and bulk purification chromatographic media. We also provide related chromatography accessories.

Quality

Dikma Technologies Inc. is an ISO 9001:2015 Standard Quality Assessed Company to ensure the quality and reliability of our products and services. We are dedicated to the highest standards of production, quality assurance and quality control.

Value

Dikma Technologies Inc. is committed to bringing maximum value to its customers.



DIKMA[®]
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