



Highly reproducible Stir Bar Sorptive Extraction (SBSE)

TWISTER & AUTOTWISTER

SORBENT PHASES

Tailored SBSE enrichment for demanding analytical workflows

Twister & AutoTwister

SORBENT PHASES

PDMS



Phase	Enrichment	Application Examples
Twister Available in 10mm or 20mm length with phase thickness 0.5mm or 1.0mm on glass	Non-polar to semi-volatile compounds Hydrophobic interactions High capacity for VOCs & SVOCs	<ul style="list-style-type: none"> Environmental VOCs (BTEX, solvents) Flavors & fragrances Hydrocarbons, mineral oil components Packaging migrants
AutoTwister Available in 10mm or 20mm length with phase thickness 0.5mm or 1.0mm On glass or stainless steel		

CWR/PDMS



Phase	Enrichment	Application Examples
Twister Available in 10mm with phase thickness 0.5mm On glass	Polar to semi-polar compounds Improved recovery of water-soluble analytes	<ul style="list-style-type: none"> Odor-active compounds in beverages Polar aroma compounds Wastewater contaminants Off-flavor analysis
AutoTwister Available in 10mm or 20mm with phase thickness 0.5mm On glass or stainless steel		

HLB/PDMS



Phase	Enrichment	Application Examples
Twister Available in 10mm with phase thickness 0.5mm On glass	Broad polarity range Balanced hydrophilic-lipophilic interactions	<ul style="list-style-type: none"> Pharmaceuticals & personal care products (PPCPs) Food contaminants Emerging pollutants Complex environmental matrices
AutoTwister Available in 10mm or 20mm with phase thickness 0.5mm On glass or stainless steel		

Twister® and AutoTwister® phases from GERSTEL enable solvent-free, highly reproducible Stir Bar Sorptive Extraction (SBSE) for GC-MS analysis. By selecting the appropriate phase chemistry, laboratories can optimize enrichment for non-polar, polar, or mixed analyte profiles across environmental, food, flavor, forensic, and industrial applications.

DVB/PDMS



Phase	Enrichment	Application Examples
Twister Available in 10mm with phase thickness 0.5mm On glass	Volatile and semi-volatile analytes Enhanced surface adsorption	<ul style="list-style-type: none"> Flavor and fragrance profiling Residual solvents Industrial chemicals Fast screening of VOCs
AutoTwister Available in 10mm or 20mm with phase thickness 0.5mm On glass or stainless steel		

CWR/DVB/PDMS



Phase	Enrichment	Application Examples
Twister Available in 10mm with phase thickness 0.5mm On glass	Wide polarity coverage Simultaneous enrichment of polar and non-polar analytes	<ul style="list-style-type: none"> Complex food matrices Environmental screening methods Unknown screening / non-target analysis Samples with mixed analyte classes
AutoTwister Available in 10mm or 20mm with phase thickness 0.5mm On glass or stainless steel		

Twister



Order no	Units	Phase	Thickness (mm)	Length (mm)
011222-001-00	10	PDMS	0.5	10
011222-002-00	100			
011333-001-00	10	PDMS	1.0	10
011333-002-00	100			
011444-001-00	10	PDMS	0.5	20
011444-002-00	100			
011555-001-00	10	PDMS	1.0	20
011555-002-00	100			
024179-010-00	10	CWR/PDMS	0.5	10
024107-010-00	10	HLB/PDMS	0.5	10
024175-010-00	10	DVB/PDMS	0.5	10
024108-010-00	10	CWR/DVB/PDMS	0.5	10

Highly reproducible Stir Bar Sorptive Extraction (SBSE)

Auto-Twister

Order no	Units	Phase	Thickness (mm)	Length (mm)	
		PDMS	0.5	10	glass
		PDMS	0.5	10	stainless steel
		PDMS	1.0	10	glass
		PDMS	1.0	10	stainless steel
		PDMS	0.5	20	glass
		PDMS	0.5	20	stainless steel
		PDMS	1.0	20	glass
		PDMS	1.0	20	stainless steel
024181-005-00	5	CWR/PDMS	0.5	10	glass
	5	CWR/PDMS	0.5	10	stainless steel
024182-005-00	5	CWR/PDMS	0.5	20	glass
	5	CWR/PDMS	0.5	20	stainless steel
024179-005-00	5	HLB/PDMS	0.5	10	glass
	5	HLB/PDMS	0.5	10	stainless steel
024180-005-00	5	HLB/PDMS	0.5	20	glass
	5	HLB/PDMS	0.5	20	stainless steel
024177-005-00	5	DVB/PDMS	0.5	10	glass
	5	DVB/PDMS	0.5	10	stainless steel
024178-005-00	5	DVB/PDMS	0.5	20	glass
	5	DVB/PDMS	0.5	20	stainless steel
024183-005-00	5	CWR/DVB/PDMS	0.5	10	glass
	5	CWR/DVB/PDMS	0.5	10	stainless steel
024184-005-00	5	CWR/DVB/PDMS	0.5	20	glass
	5	CWR/DVB/PDMS	0.5	20	stainless steel



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Velaris reserves the right to change the specifications and the appearance of the equipment without further notification.

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