



Multiple Options for Stir Bar Sorptive Extraction (SBSE)

# SORBENT PHASES FOR TWISTER AND AUTOTWISTER

Tailored SBSE enrichment for demanding analytical workflows

# Sorbent Phases for TWISTER AND AUTOTWISTER

## PDMS



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

## CWR/PDMS



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

## HLB/PDMS



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

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

## CWR/DVB/PDMS



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

## Twister



Part Number	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			
024176-010-00	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)

## AutoTwister

Part Number	Units	Phase	Thickness (mm)	Length (mm)	Rod Material
023510-005-00	5	PDMS	0.5	10	glass
023511-005-00	5	PDMS	1.0	10	glass
023259-005-00	5	PDMS	0.5	20	glass
023509-005-00	5	PDMS	1.0	20	glass
024181-005-00	5	CWR/PDMS	0.5	10	glass
024182-005-00	5	CWR/PDMS	0.5	20	glass
024179-005-00	5	HLB/PDMS	0.5	10	glass
024180-005-00	5	HLB/PDMS	0.5	20	glass
024177-005-00	5	DVB/PDMS	0.5	10	glass
024178-005-00	5	DVB/PDMS	0.5	20	glass
024183-005-00	5	CWR/DVB/PDMS	0.5	10	glass
024184-005-00	5	CWR/DVB/PDMS	0.5	20	glass



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