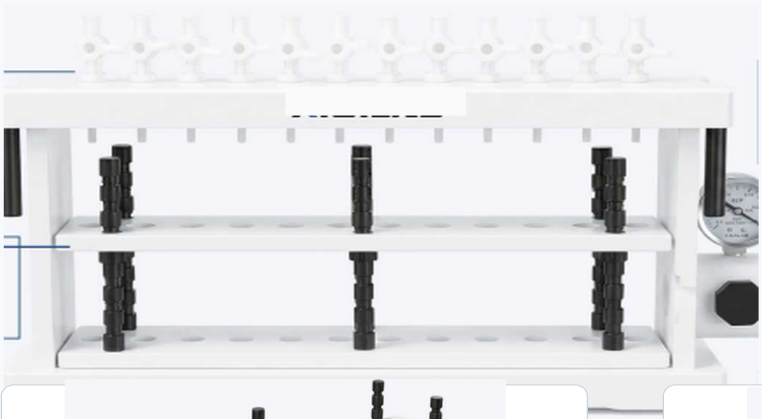
BioSpectrix
PRECISION SCIENTIFIC & LABORATORY INSTRUMENTS

SOLID PHASE EXTRACTION

SPE Series | Reliable sample preparation and purification

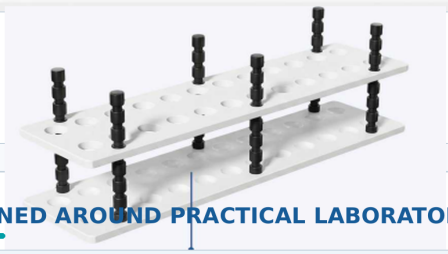
PRODUCT OVERVIEW

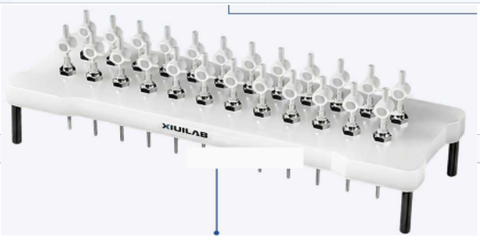
The BioSpectrix SPE Solid Phase Extraction System is designed for efficient sample pretreatment, cleanup and purification in analytical laboratories. Its multi-position format, independent flow control and adjustable vacuum support reproducible extraction workflows across routine and demanding applications.



CONTROLLED VACUUM. FLEXIBLE EXTRACTION.

Designed to support stable vacuum conditions and clear monitoring during SPE sample preparation.





DESIGNED AROUND PRACTICAL LABORATORY USE

Independent flow control
Individual channel adjustment helps operators tailor extraction conditions and maintain consistent processing.

Vacuum monitoring
An integrated pressure gauge provides a clear indication of vacuum level during operation.

Corrosion-aware materials
Guide needle choices include POM, stainless steel 316 and PTFE to suit different extraction requirements.

Stable chamber design
The standard series uses an organic-glass chamber; the SPE-TB range incorporates an integrated quartz-glass chamber.

TYPICAL APPLICATIONS

Environmental
Sample pretreatment

Pharmaceutical
Purification & enrichment

Food testing
Residue analysis

Chemical R&D
Laboratory extraction

Biological
Sample preparation

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TECHNICAL SPECIFICATIONS

SPE Series & SPE-TB Series | Model selection at a glance

SPE SERIES

Parameter	XU-SPE-12	XU-SPE-24	XU-SPE-12G	XU-SPE-24G	XU-SPE-12F	XU-SPE-24F
Voltage	AC110–240V 50–60Hz	AC110–240V 50–60Hz	AC110–240V 50–60Hz	AC110–240V 50–60Hz	AC110–240V 50–60Hz	AC110–240V 50–60Hz
Number of positions	12	24	12	24	12	24
Test tube rack diameter	Ø16 mm	Ø16 mm	Ø16 mm	Ø16 mm	Ø16 mm	Ø16 mm
Guide needle material	POM	POM	Stainless steel	Stainless steel	PTFE	PTFE
Chamber dimensions (L × W × H)	298 × 80 × 145 mm	298 × 80 × 145 mm	298 × 80 × 145 mm	298 × 80 × 145 mm	298 × 80 × 145 mm	298 × 80 × 145 mm
Display type	Pressure gauge	Pressure gauge	Pressure gauge	Pressure gauge	Pressure gauge	Pressure gauge
Pressure gauge range	0 to −0.1 MPa	0 to −0.1 MPa	0 to −0.1 MPa	0 to −0.1 MPa	0 to −0.1 MPa	0 to −0.1 MPa
Vacuum degree	−0.09 MPa	−0.09 MPa	−0.09 MPa	−0.09 MPa	−0.09 MPa	−0.09 MPa
Pressure relief valve	Yes	Yes	Yes	Yes	Yes	Yes
Anti cross-contamination	No	No	Yes	Yes	No	No

SPE-TB SERIES

Parameter	XU-SPE-12TB	XU-SPE-24TB	XU-SPE-12TBG	XU-SPE-24TBG	XU-SPE-12TBF	XU-SPE-24TBF
Voltage	AC110–240V 50–60Hz	AC110–240V 50–60Hz	AC110–240V 50–60Hz	AC110–240V 50–60Hz	AC110–240V 50–60Hz	AC110–240V 50–60Hz
Number of positions	12	24	12	24	12	24
Test tube rack diameter	Ø16 mm (Ø10/Ø13 mm optional)	Ø16 mm (Ø10/Ø13 mm optional)	Ø16 mm (Ø10/Ø13 mm optional)	Ø16 mm (Ø10/Ø13 mm optional)	Ø16 mm (Ø10/Ø13 mm optional)	Ø16 mm (Ø10/Ø13 mm optional)
Guide needle material	POM	POM	Stainless steel	Stainless steel	PTFE	PTFE
Chamber dimensions (L × W × H)	270 × 75 × 165 mm	270 × 75 × 165 mm	270 × 75 × 165 mm	270 × 75 × 165 mm	270 × 75 × 165 mm	270 × 75 × 165 mm
Display type	Pressure gauge	Pressure gauge	Pressure gauge	Pressure gauge	Pressure gauge	Pressure gauge
Pressure gauge range	0 to −0.1 MPa	0 to −0.1 MPa	0 to −0.1 MPa	0 to −0.1 MPa	0 to −0.1 MPa	0 to −0.1 MPa
Vacuum degree	−0.095 MPa	−0.095 MPa	−0.095 MPa	−0.095 MPa	−0.095 MPa	−0.095 MPa
Pressure relief valve	Yes	Yes	Yes	Yes	Yes	Yes
Anti cross-contamination	No	No	Yes	Yes	No	No

Model variants are listed by position count and guide-needle material. Please confirm the required configuration, chamber type and tube-rack dimensions when ordering.

CHOOSE THE RIGHT SPE CONFIGURATION

Compare chamber materials and guide-needle options

SPE SERIES COMPARISON

XU-SPE

COST-EFFECTIVE SERIES

- Organic-glass chamber
- Practical choice for routine laboratory extraction
- Suitable chemical resistance for standard SPE processes
- Designed for routine temperature conditions
- Lightweight structure and lower replacement cost
- Recommended for routine laboratories and testing institutions

XU-SPE-TB

INTEGRATED QUARTZ GLASS SERIES

- Integrated quartz-glass chamber
- Professional choice for demanding applications
- Enhanced chemical resistance for corrosive or complex extraction systems
- Better temperature and thermal-shock resistance
- High-purity material with low extractables
- Recommended for research, pharmaceutical and chemical laboratories

PRODUCT SELECTION GUIDE

Selection factor	SPE Series	SPE-G Series	SPE-F Series
Product positioning	Cost-effective (POM)	Durable type (stainless steel)	PTFE anti-corrosion type
Material	POM	Stainless steel (316L)	PTFE
Chemical resistance	Moderate; not suitable for strong acids and alkalis	Better; not resistant to chloride ions	Excellent; resistant to almost all chemicals
Temperature resistance	≤100°C	≤200°C (higher for short periods)	−200°C to +260°C
Mechanical strength	High	Higher	Low (soft material)
Adsorption	Medium	Low (possible metal leaching)	Very low (ideal for trace analysis)
Typical applications	Routine organic SPE	Pharmaceutical / biological / routine analysis	Strongly corrosive media; trace analysis

TYPICAL APPLICATIONS

Environmental sample pretreatment • Pharmaceutical purification and enrichment • Food residue analysis • Chemical laboratory extraction • Biological sample preparation

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