thermo scientific

Solid Phase Extraction (SPE) Method Development for Thermo Scientific SOLA and SOLAµ

Consistent excellence for bioanalysis

Thermo Scientific™ SOLA™ products are designed for bioanalytical and clinical research analysts who are tasked with providing high-quality analytical results from complex biological samples in a high-throughput environment, while complying with strict legislation. These demands are compounded by the continued push to higher efficacy drugs and long acting formulations which continue to drive sensitive requirements to lower levels to enable accurate quantification.

In order to meet these demands, bioanalytical methods must provide:

- Robustness low analytical failure rates
- Ability to process low sample volumes
- High sensitivity
- High reproducibility
- Ease of use
- High throughput processing
- Efficient and fast processes

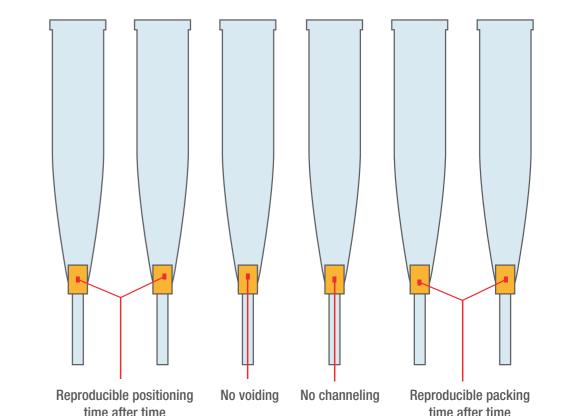
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The SOLA SPE range meets these demands due to the unique and innovative frit-less SPE technology which eliminates the issues with traditional loose-packed SPE formats (see igure to the right). Combining the support material and active media components into a solid, uniform sorbent bed provides stable and controllable flow through characteristics and has an added advantage when dealing with viscous biological samples, as it prevents blocking and enables high throughput processing.

The manufacturing process also allows for high levels of reproducibility, not only from cartridge to cartridge or well to well but also batch to batch. The Thermo Scientific™ SOLAµ™ SPE range has the added benefit of being able to provide:

- Up to a 20 fold increase in sensititvity
- Ability to process samples restricted in volume
- Increased workflow efficiency and sample integrity



SOLA WAX	SOLA SAX	SOLA HRP	SOLA SCX	SOLA WCX		
Mixed mode weak anion exchange	Mixed mode strong anion exchange	Reversed phase	Mixed mode strong cation exchange	Mixed mode weak cation exchange		
Generic method protocol for cartridge and 96 well plate formats						
Condition: 500 μL methanol	Condition: 500 μL methanol	Condition: 500 μL methanol	Condition: 500 µL Methanol	Condition: 500 μL methanol		
Equilibrate: 500 μL water with 1% formic acid	Equilibrate: 500 μL water with 1% ammonium hydroxide	Equilibrate: 500 μL Water	Equilibrate: 500 μL Water with 1% formic acid	Equilibrate: 500 μL water with 1% ammonium hydroxide		
Load: 50-500 μL of sample at 1 mL/min	Load: 50-500 µL of sample at 1 mL/min with 1% ammonium hydroxide	Load: 50-500 µL of sample at 1 mL/min	Load: 50-500 μL of sample at 1 mL/min with 1% formic acid	Load: 50-500 µL of sample at 1 mL/min with 1% ammonium hydroxide		
Wash 1:500 μL water	Wash 1: 500 µL water with 1% ammonium hydroxide	Wash 1: 500 µL 5% Methanol in water	Wash 1: 500 µL Water with 1% formic acid	Wash 1: 500 μL water with 1% ammonium hydroxide		
Wash 2: 500 μL methanol	Wash 2: 500 µL methanol with 1% ammonium hydroxide		Wash 2: 500 µL Methanol with 1% formic acid	Wash 2: 500 μL methanol with 1% ammonium hydroxide		
Elute: 200-500 μL methanol with 1% ammonium hydroxide	Elute: 200-500 μL methanol with 1% formic acid	Elute: 200-500 μL Methanol	Elute: 200-500 µL Methanol with 1% ammonium hydroxide	Elute: 200-500 μL methanol with 1% formic acid		

SOLAµ 96 Well Plates

Description	Bed weight	Well volume	Cat. no.	Quantity
SOLAµ HRP	2 mg	1 mL	60209-001	1 each
SOLAµ SCX	2 mg	1 mL	60209-002	1 each
SOLAµ SAX	2 mg	1 mL	60209-003	1 each
SOLAµ WCX	2 mg	1 mL	60209-004	1 each
SOLAµ WAX	2 mg	1 mL	60209-005	1 each

SOLA SPE Cal	rtridges			
Description	Bed weight	Well volume	Cat. no.	Quantity
SOLAµ HRP	10 mg	1 mL	03-150-391	100 pack
SOLAµ SCX	10 mg	1 mL	03-150-392	100 pack
SOLAµ SAX	10 mg	1 mL	03-150-393	100 pack
SOLAμ WCX	10 mg	1 mL	60-109-004	100 pack
SOLAµ WAX	10 mg	1 mL	03-150-401	100 pack

SOLA 96 Well Plates				
Description	Bed weight	Well volume	Cat. no.	Quantity
SOLAµ HRP	10 mg	2 mL	03-150-39	94 1 each
SOLAµ SCX	10 mg	2 mL	03-150-39	95 1 each
SOLAµ SAX	10 mg	2 mL	03-150-39	96 1 each
SOLAµ WCX	10 mg	2 mL	03-253-9	39 1 each
SOLAµ WAX	10 mg	2 mL	60-309-00	05 1 each

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