



Thermo Scientific Servo+ and Servo

# Dedicated SPE Solutions

for Drugs of Abuse

**Thermo**  
SCIENTIFIC

# SPE Solutions

## for Drugs of Abuse



Thermo Scientific Servo+ and Servo cartridges and plates provide optimized SPE (Solid Phase Extraction) solutions for analysis of drugs of abuse. Both product ranges have been specifically designed to provide an out-of-the-box solution for sample preparation for drugs of abuse.



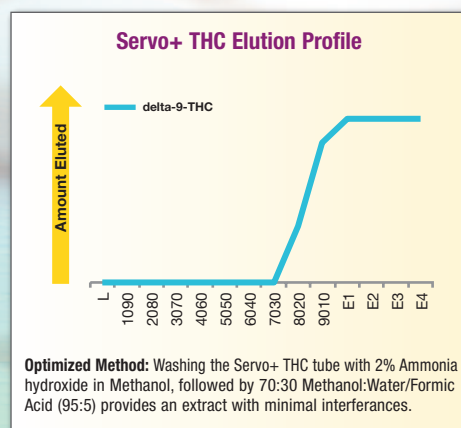
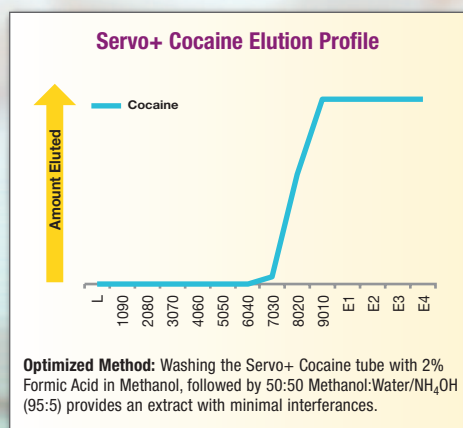
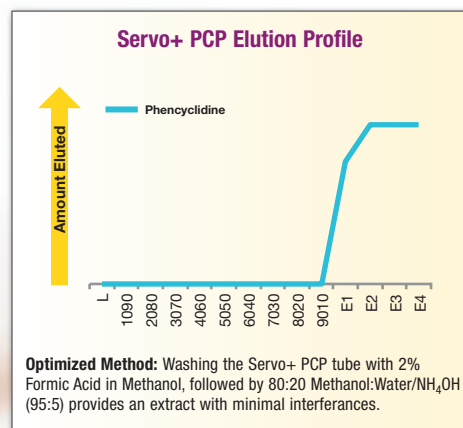
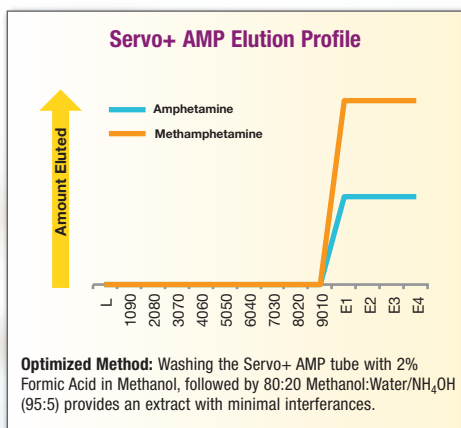
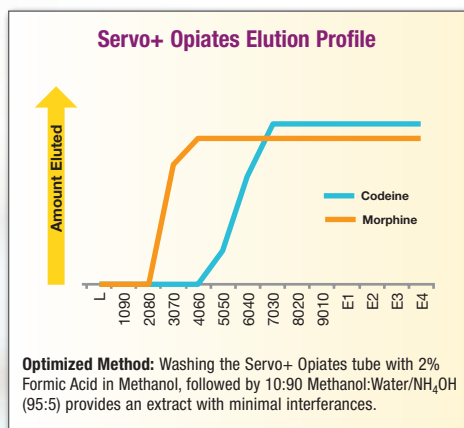
### Servo+ and Servo

Servo+™ and Servo™ cartridge and plate ranges offer high levels of reproducibility and cleanliness of extract for dealing with difficult to analyze biological sample matrices where absolute confidence in your results is required. Servo+ cartridges and plates provide the additional benefit of greater selectivity, higher loading capacities and improved robustness.

### Technical Information

Optimized extraction procedures have been developed to allow ready-to-use solutions where there are no requirements for method development and allow confidence that the sample extraction technique will provide the cleanest extract possible.

The following information highlights the elution profiles generated to provide optimized methods for the different drug classes for Servo+ cartridges and plates. Extraction of the compound(s) of interest was achieved by eluting from the respective HyperSep Servo+ cartridges with successively strong solvents and analyzing the extract via GC-MS. As a result of this a targeted, simple to use method can be implemented.



# Compound Classes

Both Servo+ and Servo cartridge and plate ranges offer optimized solution for the following compound classes:

**Total:** for screening of a wide range of unknown components

**Total A:** for screening of a wide range of unknown acidic compounds

**Total B:** for screening of a wide range of unknown basic compounds

**THC:** for dedicated extraction of THC and associated metabolites

**Opiates:** for dedicated extraction of Opiate class compounds

**AMP:** for dedicated extraction of Amphetamine class compounds

**PCP:** for dedicated extraction of PCP class compounds

**Cocaine:** for dedicated extraction of Cocaine class compounds

## Servo+ Ordering Information

	Description	Part Number
<b>Total</b>	30mg/1mL SPE Column 100Pk	60110-101C
	30mg/3mL SPE Column 50Pk	60110-102C
	60mg/3mL SPE Column 50Pk	60110-103C
	200mg/3mL SPE Column 50Pk	60110-104C
	500mg/3mL SPE Column 50Pk	60110-105C
	500mg/6mL SPE Column 30Pk	60110-106C
	100mg/6mL SPE Column 30Pk	60110-107C
	60mg/6mL SPE Column 30Pk	60110-108C
	150mg/6mL SPE Column 30Pk	60110-109C
	200mg/6mL SPE Column 30Pk	60110-110C
	1g/25mL SPE Column 20Pk	60110-111C
	96 well plate Plate 5mg 1Pk	60110-101P
	96 well plate Plate 10mg 1Pk	60110-102P
	96 well plate Plate 30mg 1Pk	60110-103P

	Description	Part Number
<b>Total A</b>	30mg/1mL SPE Column 100Pk	60110-201C
	30mg/3mL SPE Column 50Pk	60110-202C
	60mg/3mL SPE Column 50Pk	60110-203C
	200mg/3mL SPE Column 50Pk	60110-204C
	500mg/3mL SPE Column 50Pk	60110-205C
	500mg/6mL SPE Column 30Pk	60110-206C
	100mg/6mL SPE Column 30Pk	60110-207C
	60mg/6mL SPE Column 30Pk	60110-208C
	150mg/6mL SPE Column 30Pk	60110-209C
	200mg/6mL SPE Column 30Pk	60110-210C
	1g/25mL SPE Column 20Pk	60110-211C
	96 well plate Plate 5mg 1Pk	60110-201P
	96 well plate Plate 10mg 1Pk	60110-202P
	96 well plate Plate 30mg 1Pk	60110-203P

	Description	Part Number
<b>Total B</b>	30mg/1mL SPE Column 100Pk	60110-301C
	30mg/3mL SPE Column 50Pk	60110-302C
	60mg/3mL SPE Column 50Pk	60110-303C
	200mg/3mL SPE Column 50Pk	60110-304C
	500mg/3mL SPE Column 50Pk	60110-305C
	500mg/6mL SPE Column 30Pk	60110-306C
	100mg/6mL SPE Column 30Pk	60110-307C
	60mg/6mL SPE Column 30Pk	60110-308C
	150mg/6mL SPE Column 30Pk	60110-309C
	200mg/6mL SPE Column 30Pk	60110-310C
	1g/25mL SPE Column 20Pk	60110-311C
	96 well plate Plate 5mg 1Pk	60110-301P
	96 well plate Plate 10mg 1Pk	60110-302P
	96 well plate Plate 30mg 1Pk	60110-303P

	Description	Part Number
<b>THC</b>	30mg/1mL SPE Column 100Pk	60110-401C
	30mg/3mL SPE Column 50Pk	60110-402C
	60mg/3mL SPE Column 50Pk	60110-403C
	200mg/3mL SPE Column 50Pk	60110-404C
	500mg/3mL SPE Column 50Pk	60110-405C
	500mg/6mL SPE Column 30Pk	60110-406C
	100mg/6mL SPE Column 30Pk	60110-407C
	60mg/6mL SPE Column 30Pk	60110-408C
	150mg/6mL SPE Column 30Pk	60110-409C
	200mg/6mL SPE Column 30Pk	60110-410C
	1g/25mL SPE Column 20Pk	60110-411C
	96 well plate Plate 5mg 1Pk	60110-401P
	96 well plate Plate 10mg 1Pk	60110-402P
	96 well plate Plate 30mg 1Pk	60110-403P

	Description	Part Number
<b>Opiate</b>	30mg/1mL SPE Column 100Pk	60110-501C
	30mg/3mL SPE Column 50Pk	60110-502C
	60mg/3mL SPE Column 50Pk	60110-503C
	200mg/3mL SPE Column 50Pk	60110-504C
	500mg/3mL SPE Column 50Pk	60110-505C
	500mg/6mL SPE Column 30Pk	60110-506C
	100mg/6mL SPE Column 30Pk	60110-507C
	60mg/6mL SPE Column 30Pk	60110-508C
	150mg/6mL SPE Column 30Pk	60110-509C
	200mg/6mL SPE Column 30Pk	60110-510C
	1g/25mL SPE Column 20Pk	60110-511C
	96 well plate Plate 5mg 1Pk	60110-501P
	96 well plate Plate 10mg 1Pk	60110-502P
	96 well plate Plate 30mg 1Pk	60110-503P

	Description	Part Number
<b>PCP</b>	30mg/1mL SPE Column 100Pk	60110-601C
	30mg/3mL SPE Column 50Pk	60110-602C
	60mg/3mL SPE Column 50Pk	60110-603C
	200mg/3mL SPE Column 50Pk	60110-604C
	500mg/3mL SPE Column 50Pk	60110-605C
	500mg/6mL SPE Column 30Pk	60110-606C
	100mg/6mL SPE Column 30Pk	60110-607C
	60mg/6mL SPE Column 30Pk	60110-608C
	150mg/6mL SPE Column 30Pk	60110-609C
	200mg/6mL SPE Column 30Pk	60110-610C
	1g/25mL SPE Column 20Pk	60110-611C
	96 well plate Plate 5mg 1Pk	60110-601P
	96 well plate Plate 10mg 1Pk	60110-602P
	96 well plate Plate 30mg 1Pk	60110-603P

# In Summary

- Ready to use optimized solutions for analysis of drugs of abuse
- Ease of use
- Remove the need for method development
- Clean extracts
- Robust and reproducible mechanism of extraction
- Confidence in your results

	Description	Part Number
<b>AMP</b>	30mg/1mL SPE Column 100Pk	60110-701C
	30mg/3mL SPE Column 50Pk	60110-702C
	60mg/3mL SPE Column 50Pk	60110-703C
	200mg/3mL SPE Column 50Pk	60110-704C
	500mg/3mL SPE Column 50Pk	60110-705C
	500mg/6mL SPE Column 30Pk	60110-706C
	100mg/6mL SPE Column 30Pk	60110-707C
	60mg/6mL SPE Column 30Pk	60110-708C
	150mg/6mL SPE Column 30Pk	60110-709C
	200mg/6mL SPE Column 30Pk	60110-710C
	1g/25mL SPE Column 20Pk	60110-711C
	96 well plate Plate 5mg 1Pk	60110-701P
	96 well plate Plate 10mg 1Pk	60110-702P
	96 well plate Plate 30mg 1Pk	60110-703P

	Description	Part Number
<b>Cocaine</b>	30mg/1mL SPE Column 100Pk	60110-801C
	30mg/3mL SPE Column 50Pk	60110-802C
	60mg/3mL SPE Column 50Pk	60110-803C
	200mg/3mL SPE Column 50Pk	60110-804C
	500mg/3mL SPE Column 50Pk	60110-805C
	500mg/6mL SPE Column 30Pk	60110-806C
	100mg/6mL SPE Column 30Pk	60110-807C
	60mg/6mL SPE Column 30Pk	60110-808C
	150mg/6mL SPE Column 30Pk	60110-809C
	200mg/6mL SPE Column 30Pk	60110-810C
	1g/25mL SPE Column 20Pk	60110-811C
	96 well plate Plate 5mg 1Pk	60110-801P
	96 well plate Plate 10mg 1Pk	60110-802P
	96 well plate Plate 30mg 1Pk	60110-803P



	Description	Part Number
<b>Total</b>	50mg/1mL SPE Column 100Pk	60110-901C
	100mg/1mL SPE Column 100Pk	60110-902C
	200mg/3mL SPE Column 50Pk	60110-903C
	500mg/3mL SPE Column 50Pk	60110-904C
	500mg/6mL SPE Column 30Pk	60110-905C
	1g/6mL SPE Column 30Pk	60110-906C
	2g/15mL SPE Column 20Pk	60110-907C
	96 well plate Plate 10mg 1Pk	60110-901P
	96 well plate Plate 25mg 1Pk	60110-902P
	96 well plate Plate 50mg 1Pk	60110-903P
96 well plate Plate 100mg 1Pk	60110-904P	
<b>Total A</b>	130mg/1mL SPE Column 100Pk	60111-101C
	300mg/3mL SPE Column 50Pk	60111-102C
	500mg/3mL SPE Column 50Pk	60111-103C
	200mg/6mL SPE Column 50Pk	60111-104C
	500mg/6mL SPE Column 30Pk	60111-105C
	1g/6mL SPE Column 30Pk	60111-106C
	96 well plate Plate 5mg 1Pk	60111-101P
	96 well plate Plate 10mg 1Pk	60111-102P
	96 well plate Plate 30mg 1Pk	60111-103P
	96 well plate Plate 100mg 1Pk	60111-104P

	Description	Part Number
<b>Total B</b>	130mg/1mL SPE Column 100Pk	60111-201C
	300mg/3mL SPE Column 50Pk	60111-202C
	500mg/3mL SPE Column 50Pk	60111-203C
	200mg/6mL SPE Column 50Pk	60111-204C
	500mg/6mL SPE Column 30Pk	60111-205C
	1g/6mL SPE Column 30Pk	60111-206C
	96 well plate Plate 10mg 1Pk	60111-201P
	96 well plate Plate 25mg 1Pk	60111-202P
	96 well plate Plate 50mg 1Pk	60111-203P
	96 well plate Plate 100mg 1Pk	60111-204P

	Description	Part Number
<b>THC</b>	130mg/1mL SPE Column 100Pk	60111-301C
	300mg/3mL SPE Column 50Pk	60111-302C
	500mg/3mL SPE Column 50Pk	60111-303C
	200mg/6mL SPE Column 50Pk	60111-304C
	500mg/6mL SPE Column 30Pk	60111-305C
	1g/6mL SPE Column 30Pk	60111-306C
	96 well plate Plate 5mg 1Pk	60111-301P
	96 well plate Plate 10mg 1Pk	60111-302P
	96 well plate Plate 30mg 1Pk	60111-303P
	96 well plate Plate 100mg 1Pk	60111-304P

	Description	Part Number
<b>Opiate</b>	130mg/1mL SPE Column 100Pk	60111-401C
	300mg/3mL SPE Column 50Pk	60111-402C
	500mg/3mL SPE Column 50Pk	60111-403C
	200mg/6mL SPE Column 50Pk	60111-404C
	500mg/6mL SPE Column 30Pk	60111-405C
	1g/6mL SPE Column 30 Pk	6011-406C
	96 well plate Plate 10mg 1Pk	60111-401P
	96 well plate Plate 25mg 1Pk	60111-402P
	96 well plate Plate 50mg 1Pk	60111-403P
	96 well plate Plate 100mg 1Pk	60111-404P

	Description	Part Number
<b>PCP</b>	130mg/1mL SPE Column 100Pk	60111-501C
	300mg/3mL SPE Column 50Pk	60111-502C
	500mg/3mL SPE Column 50Pk	60111-503C
	200mg/6mL SPE Column 50Pk	60111-504C
	500mg/6mL SPE Column 30Pk	60111-505C
	1g/6mL SPE Column 30Pk	60111-506C
	96 well plate Plate 10mg 1Pk	60111-501P
	96 well plate Plate 25mg 1Pk	60111-502P
	96 well plate Plate 50mg 1Pk	60111-503P
	96 well plate Plate 100mg 1Pk	60111-504P

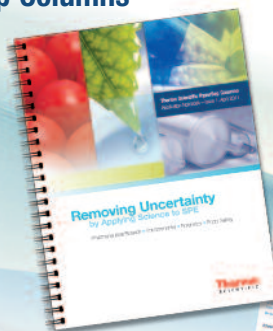
	Description	Part Number
<b>AMP</b>	130mg/1mL SPE Column 100Pk	60111-601C
	300mg/3mL SPE Column 50Pk	60111-602C
	500mg/3mL SPE Column 50Pk	60111-603C
	200mg/6mL SPE Column 50Pk	60111-604C
	500mg/6mL SPE Column 30Pk	60111-605C
	1g/6mL SPE Column 30Pk	60111-606C
	96 well plate Plate 10mg 1Pk	60111-601P
	96 well plate Plate 25mg 1Pk	60111-602P
	96 well plate Plate 50mg 1Pk	60111-603P
	96 well plate Plate 100mg 1Pk	60111-604P

	Description	Part Number
<b>Cocaine</b>	130mg/1mL SPE Column 100Pk	60111-701C
	300mg/3mL SPE Column 50Pk	60111-702C
	500mg/3mL SPE Column 50Pk	60111-703C
	200mg/6mL SPE Column 50Pk	60111-704C
	500mg/6mL SPE Column 30Pk	60111-705C
	1g/6mL SPE Column 30Pk	60111-706C
	96 well plate Plate 10mg 1Pk	60111-701P
	96 well plate Plate 25mg 1Pk	60111-702P
	96 well plate Plate 50mg 1Pk	60111-703P
	96 well plate Plate 100mg 1Pk	60111-704P

## Resources for Chromatographers

### Thermo Scientific HyperSep Columns Application Notebook

Our new SPE Application Notebook includes **over 150 application notes** focused on Pharmaceutical/Biotech, Environmental, Food Safety and Forensic solutions. Visit [www.thermoscientific.com/spe](http://www.thermoscientific.com/spe)



### Chromatography Resource Center

Our web-based resource center provides technical support, applications, technical tips and literature to help move your separations forward. Visit [www.thermoscientific.com/chromatography](http://www.thermoscientific.com/chromatography)



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