

Solid Phase Extraction(SPE) Small Molecule Method Development

Establish Your Target Analyte Characteristics

| Analyte pKa | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Neutral | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Part - |
|---------------------------|---|--|---|--|--|---|---|---|--|---|--|--|---|---|-----|-----------|
| Strata [™] -X | | Neuti Modified Strong re | ral Anal N-Vinylpyrrol tention of ne | lyte or lidone funct utral compo | Analy tional group bunds allows | te with results in n s for aggres | log P nultiple med ssive washe | > -0.5 chanisms of retention t is for increased sensiti | for the wides vity and met | st range of s hod reprodu | electivity. icibility | | | | | |
| Strata [™] -X-AW | | Acidi Di-amino charged a washes, in | c Analy functional gr acidic compo ncreasing se | te pK _a roup is highl unds allows nsitivity and | ≤ 5 ly selective for 100 % I method re | for organic producibility | o y. | | ÷ 37 | | | The second second | | | | N 1 1 Fit |
| Strata [™] -X-C | | | | | | | Basi Sulfonic compou increasi | c Analyte pK acid functional group nds allows for 100 % ng sensitivity and met | $s_a \leq 10$, is highly selected organic washod reproduced | 5 ective for we nes, cibility. | eakly basic | | | | | |
| Strata [™] -X-CW | | | | | | | | | Basi Carboxyl quaterna organic | c Analy ic acid funct iry amines. I washes, incr | tional group a High selectivit easing sensit | ≥ 8 Ilows for rever y for all basic o ivity and metho | sible binding o compounds all od reproducibil | f strong bases ows for 100 % ity. | and | |

Determine Correct Sorbent Mass for Your Sample Matrix and Volume

| | Sorbent Mass (in tube) | Plasma/ Serum | Urine | Filtered Tissue Homogenates | Water (particulate-free) | Water (particulate-laden) |
|------------------------------------|---------------------------|------------------|--------|--------------------------------|-----------------------------|------------------------------|
| | 10 mg | 100 µL | 250 µL | 10 mg | 2 mL | 1 mL |
| otrata" | 30 mg | 250 µL | 1 mL | 50 mg | 10 mL | 5 mL |
| Sliala | 60 mg | 500 µL | 2 mL | 100 mg | 25 mL | 10 mL |
| Strata [™] -X, X-C, X-CW, | 100 mg | 1 mL | 4 mL | 150 mg | 50 mL | 25 mL |
| X-AW, XL, XL-C | 200 mg | 2 mL | 8 mL | 300 mg | 100 mL | 50 mL |
| | 500 mg | 5 mL | 20 mL | 500 mg | 500 mL-1L | 100 mL |

Determine Correct Wash and Elution Solvent Volumes for Your Method

| Strata Sorbent Mass | 10 mg | 30 mg | - | 60 mg | 100 mg | 150 mg | 200 mg | 500 mg | 1 g | 2 g | 5 g | 10 g |
|--|--------|--------|---|--------|--------|--------|--------|--------|-------|-------|--------|--------|
| Practical Minimum Wash and Elution Volume 4 bed volumes | 100 µL | 300 µL | - | 600 µL | 1 mL | 1.5 mL | 2 mL | 5 mL | 10 mL | 20 mL | 50 mL | 100 mL |
| Recommended Wash and Elution Volume 8 bed volumes | 200 µL | 600 µL | - | 1.2 mL | 2 mL | 3 mL | 4 mL | 10 mL | 20 mL | 40 mL | 100 mL | 200 mL |

General Method for Your strata Sorbent



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