



## WCX Magnetic Particles PRODUCT DATA SHEET

### WCX Magnetic Particles

#### Description

WCX magnetic beads are based on HLB magnetic beads with surface carboxyl modification. As weak cation exchange magnetic beads, WCX magnetic beads are suitable for the enrichment of strong basic compounds, especially those containing aromatic rings or macrorings, such as catecholamines in serum samples. It can interact with the specific structure of target proteins, achieve efficient separation and purification of proteins. In the field of chemistry, weak cation exchange magnetic beads can be used for the separation and extraction of organic substances. It can have an ion exchange reaction with the target organics to realize the selective adsorption and separation of organics. This method not only improves the purity of the separation of organic substances, but also reduces the time and operation steps of the separation process. Abvigen's WCX Magnetic Particles are superparamagnetic particles with excellent colloidal stability and biocompatible coating for biomedical applications including: in-vivo magnetic resonance imaging (MRI), magnetic particles imaging (MPI), magnetic sensing for in-vitro diagnostics, small molecular drug delivery, immunotherapy, hyperthermia, adjuvant for vaccine, etc.

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For custom sizes, formulations or bulk quantities please contact our customer service department.

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#### Characteristics

Concentration: 10 mg/ml

Size: 10 ml

Shape: Spherical

Composition: WCX Magnetic Particles

Density: 1.1 g/ccm

Buffer: PBS

Form: Suspension

Store: Storage at 2 - 8 °C

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## Storage

This product should be stored at 4°C. **DO NOT FREEZE.**

## For 10 mg/ml of WCX Magnetic Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml
200 nm	10	2.17E+11	2.17E+12
1 um	10	1.74E+09	1.74E+10
2 um	10	2.17E+08	2.17E+09
3 um	10	6.43E+07	6.43E+08
5 um	10	1.39E+07	1.39E+08
10 um	10	1.74E+06	1.74E+07
15 um	10	5.14E+05	5.14E+06
20 um	10	2.17E+05	2.17E+06
30 um	10	6.43E+04	6.43E+05
40 um	10	2.71E+04	2.71E+05
50 um	10	1.39E+04	1.39E+05
100 um	10	1.74E+12	1.74E+13

## References

[1]ZHENG Z, Xia T, LI Y, et al. Application of WCX magnetic bead for serum proteome profiling in cervical squamous cell carcinomas and its clinical significance[J]. Basic & Clinical Medicine, 2009, 29(3): 287.

[2]DONG D X, LI H Z, SHI B B, et al. WCX magnetic beads combined with MALDI-TOF MS detect differentially expressed proteins in serum of urothelial carcinoma of renal pelvis[J]. Basic & Clinical Medicine, 2013, 33(11): 1498.

[3]Dong D, Ji Z, Li H, et al. Preliminary application of WCX magnetic bead-based matrix-assisted laser desorption ionization time-of-flight mass spectrometry in analyzing the urine of renal clear cell carcinoma[J]. Chinese Medical Sciences Journal, 2017, 32(4): 248-252.

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[4]Wong M Y M, Yu K O Y, Poon T C W, et al. A magnetic bead-based serum proteomic fingerprinting method for parallel analytical analysis and micropreparative purification[J]. Electrophoresis, 2010, 31(10): 1721-1730.

#### **Ordering Information**

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