

Bonna-Agela Cleanert PEP *neo* SPE Cartridges

Bonna-Agela introduced PEP *neo* Series **Pre-Conditioned SPE Cartridges** in 2010, which was a revolutionary product in Sample Preparation providing convenience to scientists working in analytical labs by eliminating the **CONDITIONING** and **EQUILIBRATION** steps in traditional SPE process resulting in overall cost reduction in solvents usage and sample processing time.

Now Bonna-Agela announces launch of **Cleanert PEP *neo* SPE** which will save 4-5 times of sample and solvent volume. At the same time, PEP *neo* SPE cartridge makes the operation more convenient as only 50ul of elution solvent will be needed to elute target compounds from the cartridge, and evaporation time can be reduced or even eliminated. Cleanert PEP *neo* SPE cartridges can be used in Pharmaceutical, Clinical, Food Safety, and Environmental areas same as traditional SPE cartridges with improved performance.

For High Throughput Analysis 96 well PEP *plus* plates as well as 96 PEP *neo* plates with both 1mL and 2mL volume are also available in PEP series of products.

Specifications

Average particle diameter: 30-50µm; Average pore size: 60Å; Specific surface area: 600-800m²/g.

Comparison of Cleanert PEP *neo* vs PEP *plus*

	Cleanert PEP <i>neo</i>	PEP <i>plus</i>
Sample Loading	50µL-200µL diluted plasma	200µL-500µL diluted plasma
Washing	200µL 5% MeOH in H ₂ O	500µL 5% MeOH in H ₂ O
Elution	50µL MeOH or ACN	200µL MeOH or ACN



Cleanert PEP *neo*
Micro Cartridges & Plates



PEP *plus* Cartridges & Plates

Bio Cleanert Series

Bio cleanert series are design to use a simple sample preparation method that applies multi-functional impurity adsorption to minimize matrix effect caused by phospholipids and proteins in biological sample. This method provides much simplified procedure than the traditional SPE process.

Outstanding cleanup performance offer enhanced sensitivity. Method development is much simpler by follow the method protocol than conventional Ion Exchange SPE make labwork more effectively.

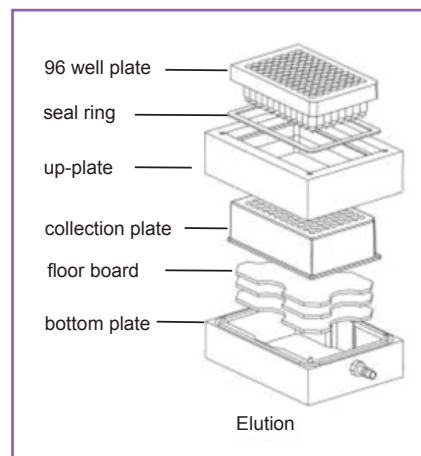
Products Selection Guide

According to the diagram below you can choose an appropriate product and elution solvent.

BIO-A screening method for acid compounds;

BIO-B screening method for basic compounds;

BIO-WA screening method for amphoteric compounds.



Bio Cleanert Series

Comparison of Bio Cleanert and Traditional Ion Exchange SPE cartridges

	Bio Cleanert	RP/Ion-exchange	RP Polymer
Typical Products	BIO-A BIO-B BIO-WA	PCX PAX PWAX PWCX	PEP
Interferences Removal	+++	+++	+
Operation	3 Steps	6 Steps	5 Steps
	<ul style="list-style-type: none"> ○ Condition ○ Sample Loading ○ Elution 	<ul style="list-style-type: none"> ○ Condition ○ Equilibration ○ Sample Loading ○ Washing by aqueous ○ Washing by solvent ○ Elution 	<ul style="list-style-type: none"> ○ Condition ○ Equilibration ○ Sample Loading ○ Washing ○ Elution

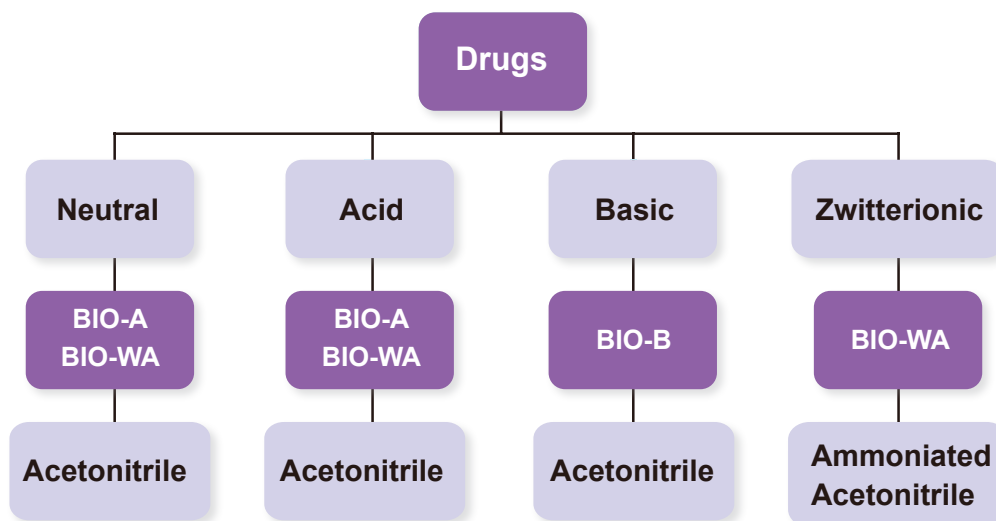
Step 1 Condition Step 2 Sample loading Step 3 Elution

Press

Precipitation

Elue Collection

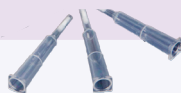
Bio Cleanert Selection Guide



Tips:

For amphoteric drug, basic eluants suggested, such as 0.01% - 1% $\text{NH}_3 \cdot \text{H}_2\text{O}$; while acidic eluants suggested for basic compounds, such as 0.02% - 2% acetic acid solution. In some cases, mixing 10% of methanol with the ACN may improve the efficiency of protein precipitation.

Ordering Information

Product	Specification	Picture / Application	Cat.No
Cleanert PEP neo	5mg/1mL		PE00501P-LW
Micro Cartridge	10mg/1mL		PE0101P-LW
Cleanert PEP neo	5mg/1mL/well		PE00501P-MW
Micro Plates	10mg/1mL/well		PE0101P-MW
PEP Plus	30mg/1mL		PE0301-P
	60mg/3mL		PE0603-P
	200mg/6mL		PE2006-P
PEP Plus Plates	30mg/2mL/well		PE0302P-W
	50mg/2mL/well		PE0502P-W
Bio Cleanert	30mg/1mL	basic and neutral compounds	BIO-B-0301
	60mg/1mL	basic and neutral compounds	BIO-B-0601
	30mg/1mL	acidic compounds	BIO-A-0301
	60mg/1mL	acidic compounds	BIO-A-0601
	30mg/1mL	weak acidic compounds	BIO-WA-0301
	60mg/1mL	weak acidic compounds	BIO-WA-0601
	30mg / 2mL / well	basic and neutral compounds	BIO-B-0302W
	30mg / 2mL / well	acidic compounds	BIO-A-0302W
	30mg / 2mL / well	weak acidic compounds	BIO-WA-0302W

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