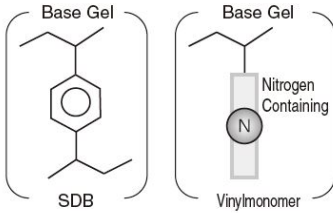


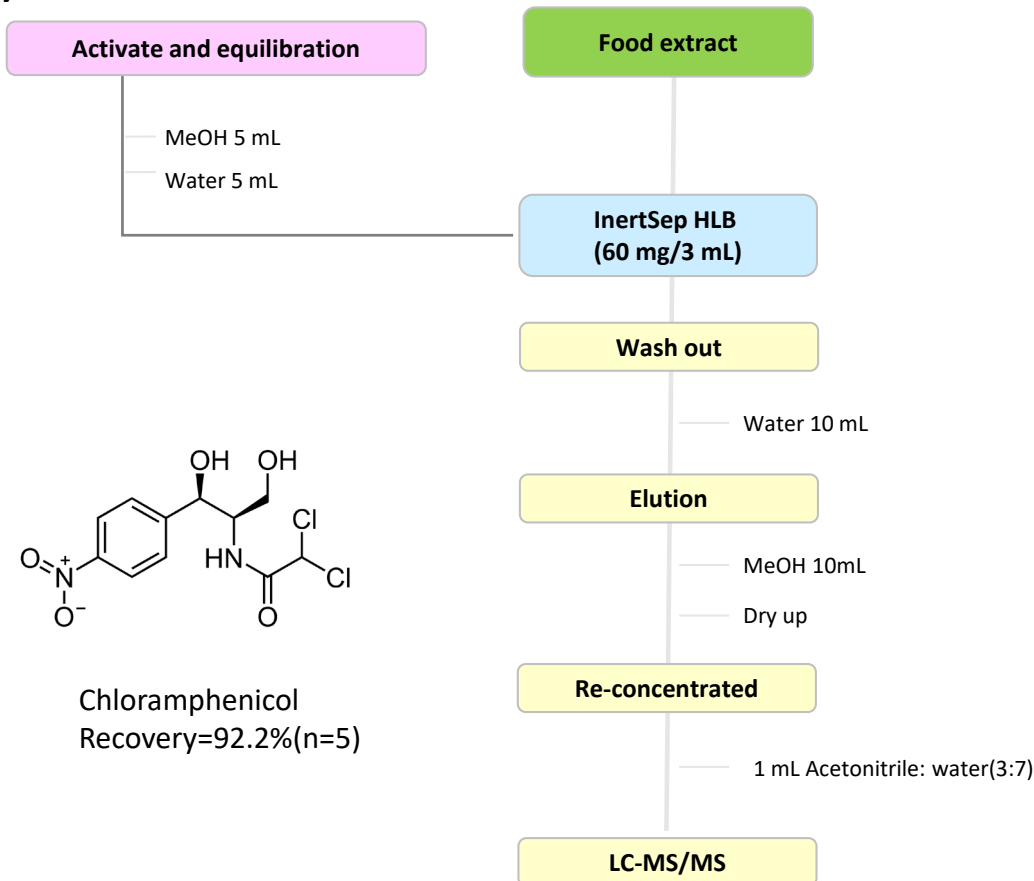
# InertSep HLB, InertSep HLB FF applications

## Specifications

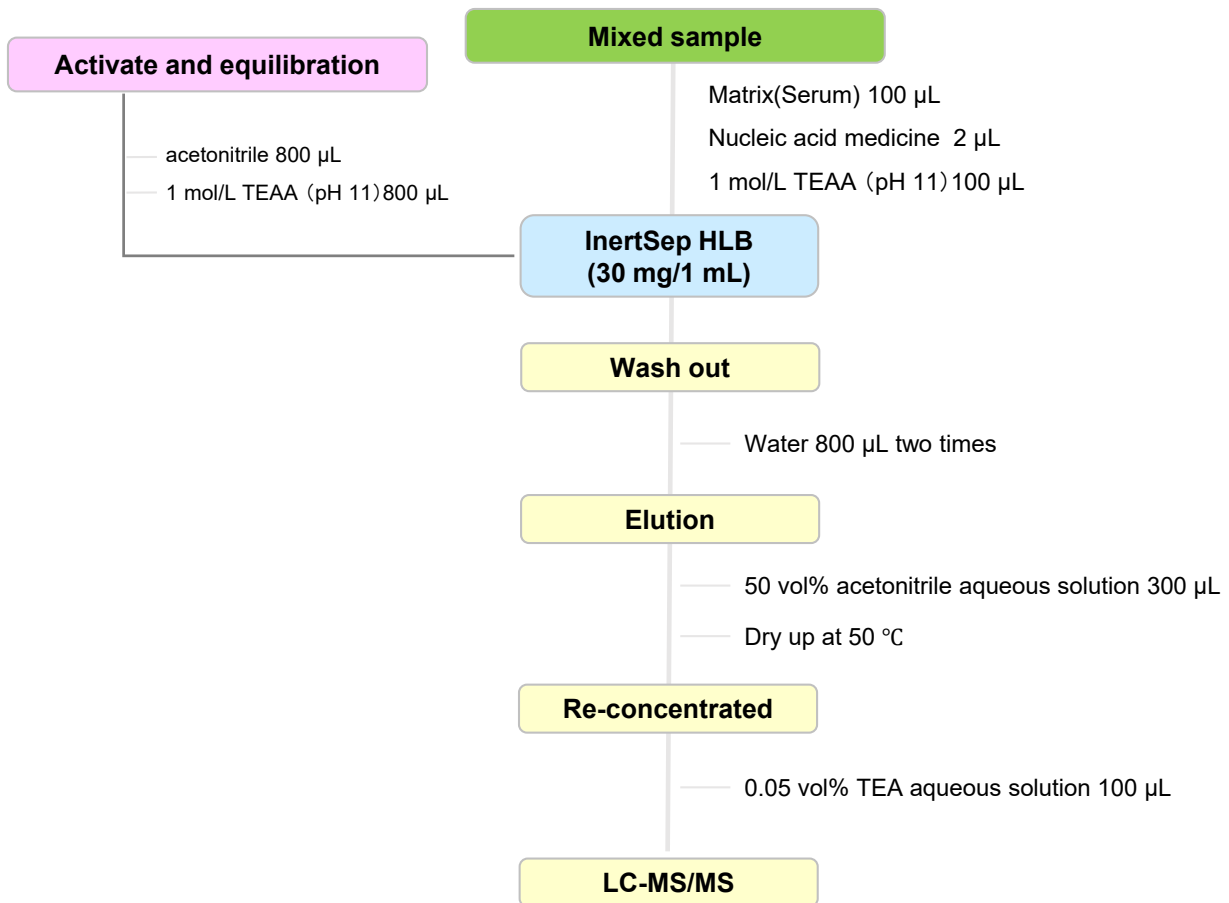
Structure of the gel	Physical properties	InertSep HLB	InertSep HLB FF
 <p>Base Gel</p> <p>SDB</p> <p>Vinylmonomer</p> <p>Nitrogen Containing</p>	<p>Average particle diameter (<math>\mu\text{m}</math>)</p> <p>Surface area (<math>\text{m}^2/\text{g}</math>)</p> <p>Pore volume ( mL/g)</p> <p>Fine pore size (nm)</p> <p>pH range of use</p>	<p>30</p> <p>720</p> <p>1.3</p> <p>7</p> <p>1-14</p>	<p>60</p>

**InertSep HLB is a composite polymer solid phase of N-containing vinyl polymer and styrene divinylbenzene. By optimizing the balance between hydrophobicity and hydrophilicity with our unique synthetic technology, we have made it possible to retain and elute a wide range of polar compounds.**

## Purification of Chloramphenicol from honey

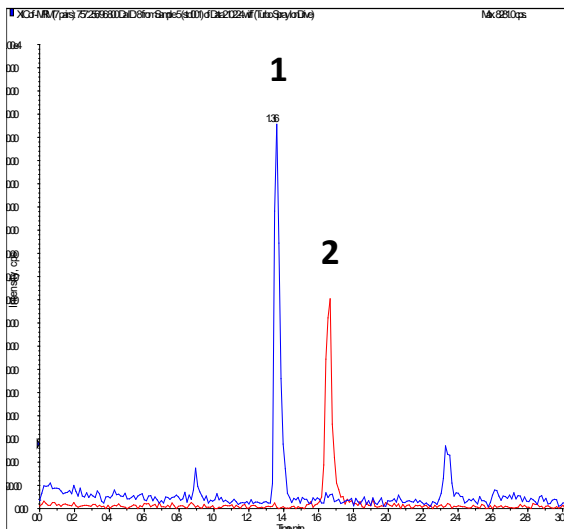


# Recovery for Nucleic acid medicine

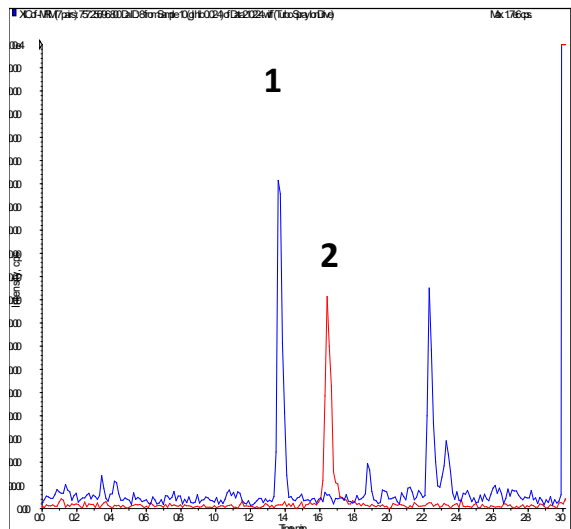


## Recovery for Nucleic acid medicine

### STD



### Extraction form serum

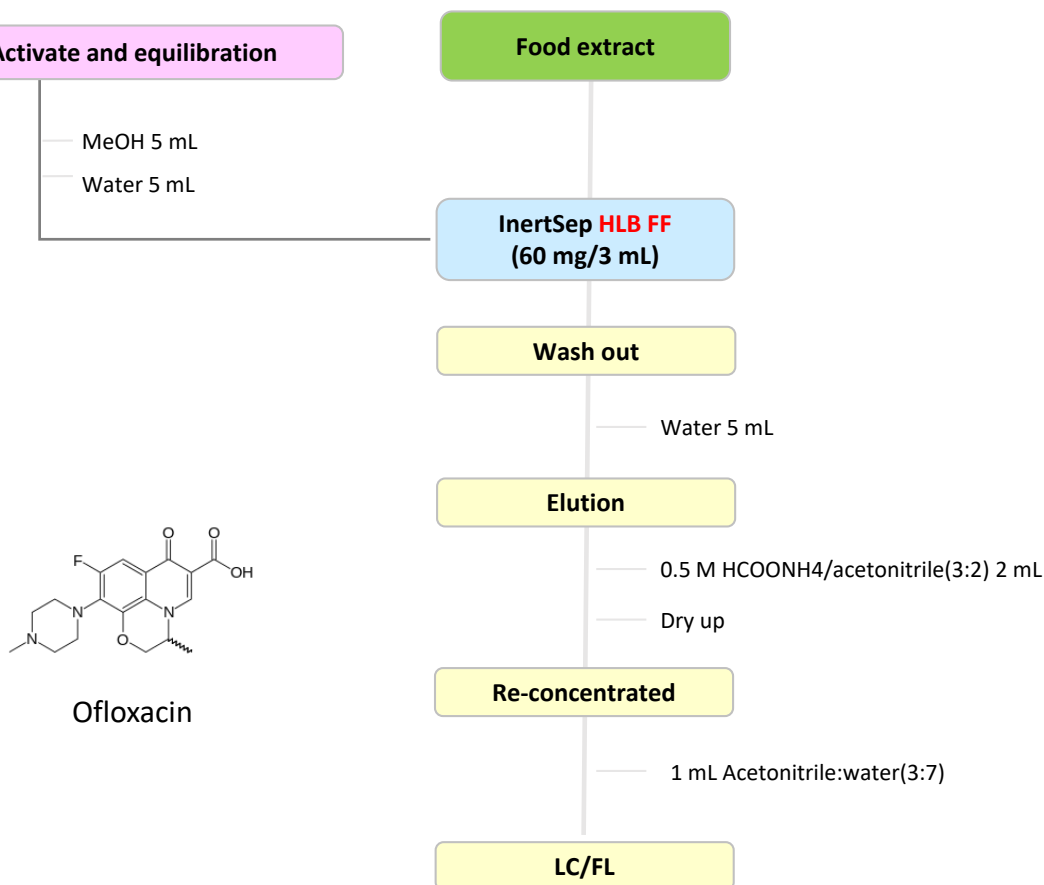


1. tccatgacgttctgatgct Q1/Q3 = 865.3/96.8

2. t<sup>^</sup>c<sup>^</sup>a<sup>^</sup>a<sup>^</sup>t<sup>^</sup>g<sup>^</sup>a<sup>^</sup>c<sup>^</sup>g<sup>^</sup>t<sup>^</sup>t<sup>^</sup>c<sup>^</sup>c<sup>^</sup>t<sup>^</sup>g<sup>^</sup>a<sup>^</sup>t<sup>^</sup>g<sup>^</sup>c<sup>^</sup>t<sup>^</sup> Q1/Q3 = 706.1/94.9

<sup>^</sup>= phosphorothioated

## Purification of Quinolones form meat sample



## Recovery of Quinolones using InertSep HLB FF

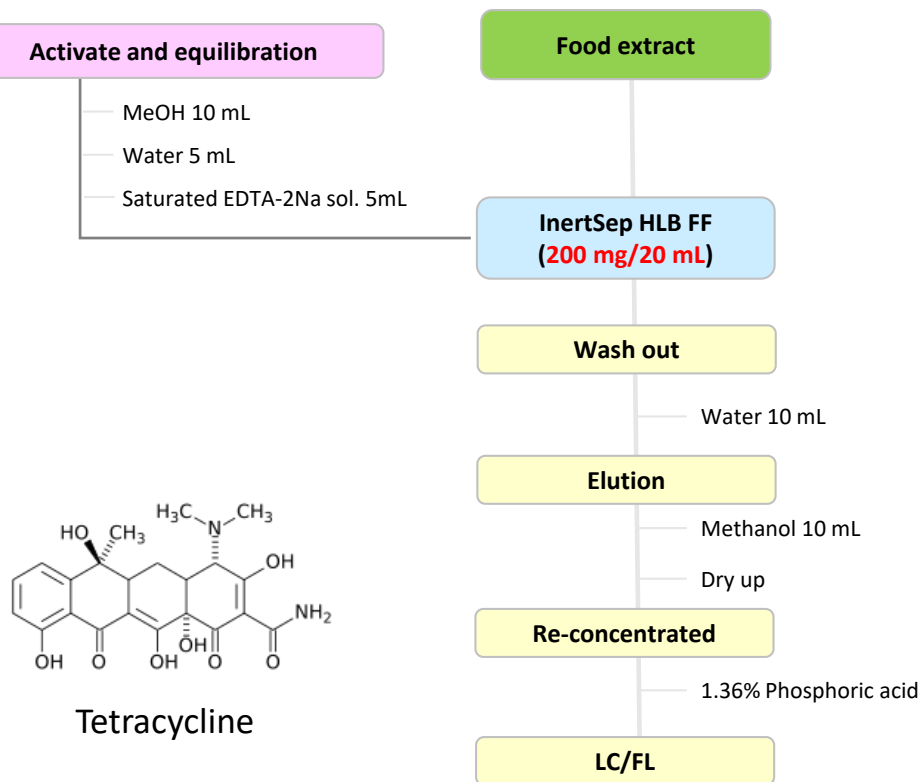
Sample	Recovery(%)			Average[%]	RSD(%)
	1	2	3		
Ofloxacin	103	103	100	102	2
Ciprofloxacin	103	104	100	102	2
Enrofloxacin	101	101	98	100	2
Orbifloxacin	96	96	93	95	2
Nalidixic acid	97	98	92	96	3

## Time required for sample load(Large particle effect)

InertSep HLB FF(**60um**) 60mg/3mL : only 5min !

Other bland HLB (**30um**) 60mg/3mL : 1hr and column clogging

## Purification of tetracycline form chicken



### Recovery of tetracycline using InertSep HLB

Sample	Recovery(%)			Average[%]	RSD(%)
	1	2	3		
Oxytetracycline	93	94	97	95	2
Tetracycline	93	97	97	96	3
Chlortetracycline	100	104	101	102	2

### For pretreatment of clogging-prone samples

Clogging due to viscosity and residue can be a problem when handling food extractions. Our 20 mL InertSep HLB FF reservoir eliminates "clogging" problems that occur when using a 6 mL reservoir, Overall improving work efficiency.

