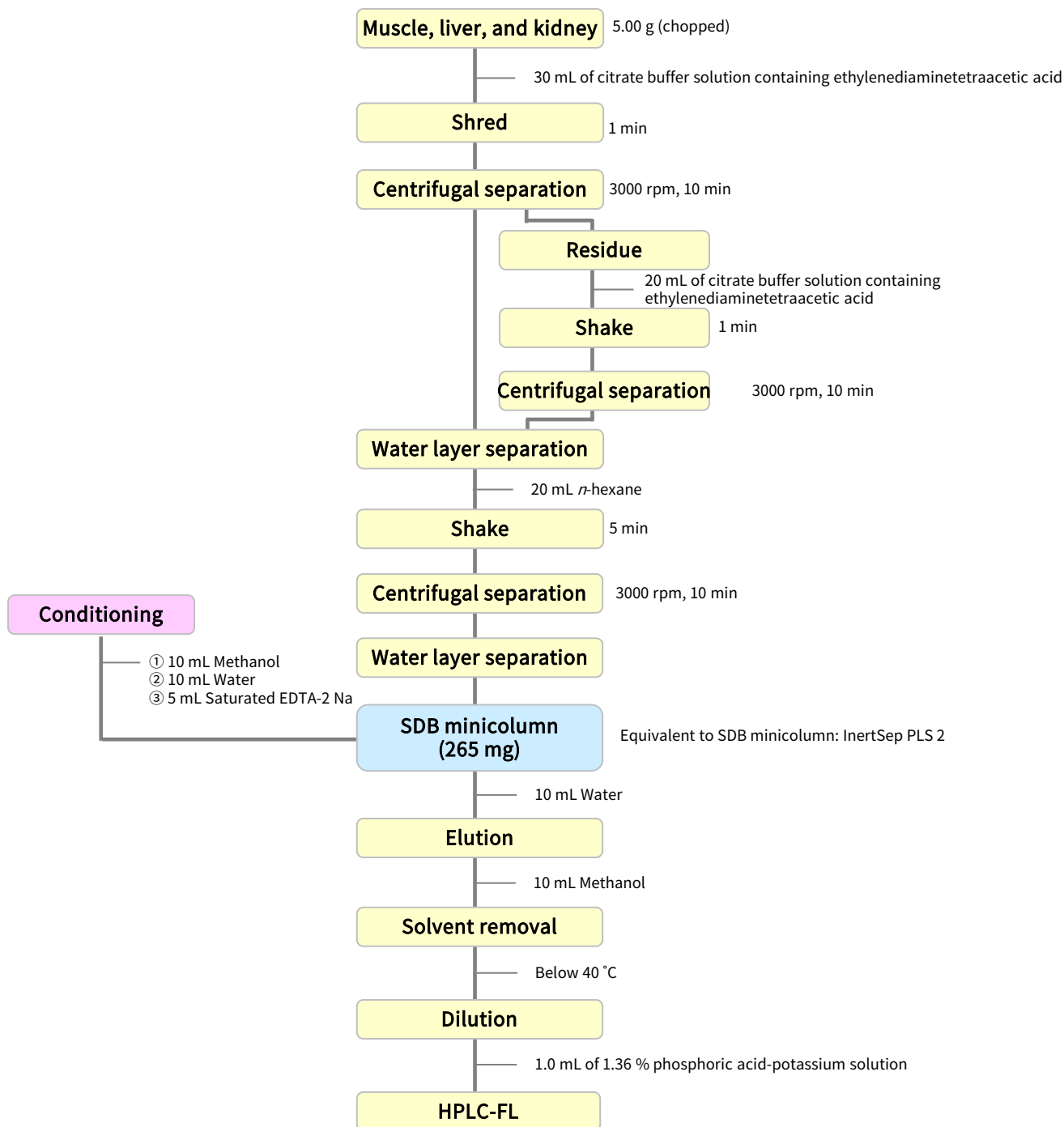


Animal health products and feed additives are being used to increase production efficiency as demand for livestock and fishery products increases. Tetracyclines are currently approved for some applications because of their excellent properties. However, the Food Sanitation Law sets a maximum allowable daily intake for food safety. In May 2006, the maximum residue limits for livestock and fishery foods were established in line with the introduction of a positive list system.

In this application the established test method was used to extract samples with a citric acid buffer containing EDTA, remove lipids with hexane, purify with styrene-divinylbenzene copolymer, and measure by HPLC.

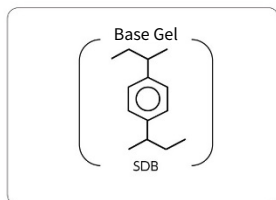
## 1. Flow diagram of solid phase pretreatment



Reference: Based on the Individual Test Method of MHLW Notification

## 2. Products for solid-phase extraction

### [InertSep PLS-2]



Mean particle size : 60 µm  
 Surface Area : 600 m<sup>2</sup>/g  
 Pore volume : 1.1 mL/g  
 Pore size : 70 Å  
 PH range of use : 1- 14

InertSep PLS 2 is a cartridge filled with a styrene divinylbenzene polymer gel (SDB) that behaves in a reversed-phase mode similar to C18. It has a retention capacity greater than C18 and excellent stability in a wide pH range.

#### Syringe barrel type cartridge

Product name	Column size	Qty.	Cat.No.
InertSep PLS-2	265 mg/6 mL	50 bottles	5010-27430
	265 mg/20 mL	20 bottles	5010-27431
	500 mg/6 mL	30 bottles	5010-25025
	500 mg/20 mL	20 bottles	5010-25036

### [Accessories for making connections between solid-phase extraction cartridges]



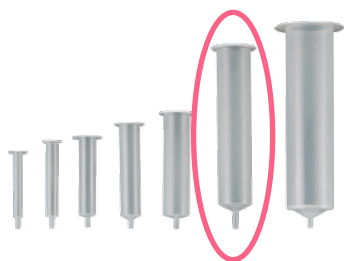
#### Cartridge connection adapter

Cartridge adapter used to connect syringe barrel and LSC cartridges.

Product name	Specification	Qty.	Cat.No.
Solid Phase Extraction Cartridge Connection Adapter (PP)	For 1,3,6 mL reservoirs	12	5010-60000
	For 12,20 mL reservoirs	12	5010-60001
	For 60 mL reservoirs	12	5010-60002
	For LSC reservoir	12	5010-60004
	For 150 mL reservoirs	12	5010-50336

#### Empty reservoir

Used when the sample volume is greater than the cartridge capacity.



Product name	Specification	Qty.	Cat.No.
Empty reservoir (PP) No frits	1 mL	50 bottles	5010-60100
	3 mL	50 bottles	5010-60101
	6 mL	30 bottles	5010-60102
	12 mL	20 bottles	5010-60103
	20 mL	20 bottles	5010-60104
	60 mL	10 bottles	5010-60105
	150 mL	10 bottles	5010-60106

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