

## Analysis of oxytetracycline in milk

The permissible levels of and methods used to analyze oxytetracycline (OTC), an antibiotic with a fodder additive and veterinary uses, in foodstuffs are controlled according to food hygiene laws<sup>1,2</sup>. According to the official protocol, OTC was added to a milk sample at the accepted reference level (0.1 ppm) and was analyzed following the pre-processing scheme of Fig. 1. Chromatograms of a standard sample and a milk sample spiked with standard are shown in Fig. 2.

### < References >

- 1) Ministry of health and welfare ordinance 62 (26th December, 1995)
- 2) Ministry of health and welfare ordinance 218 (26th December, 1995)

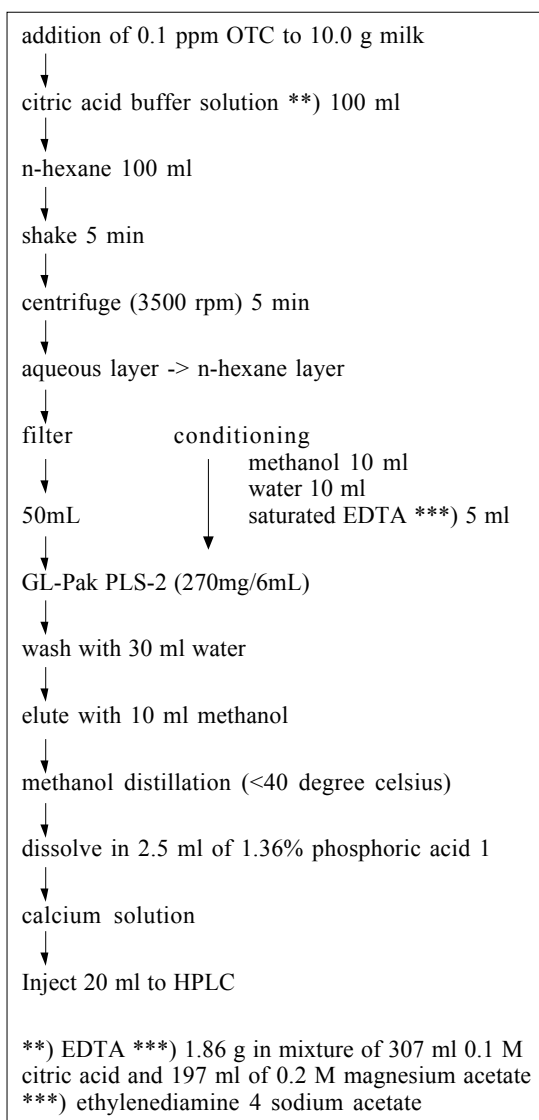


Fig. 1 sample pre-processing

### Conditions:

Column: ODS column  
(4.6mm ID x 150mm L)  
Eluent: Imidazole  
buffer<sup>\*</sup>/CH<sub>3</sub>OH(80/20)  
Wavelength: Ex 360nm, Em 425nm  
Flow rate: 0.7ml/min  
Column temperature: 40 degree celsius  
Sample: Oxytetracycline STD(0.1ppm)  
Oxytetracycline(0.1ppm) in milk  
Injection volume: 20uL  
<sup>\*</sup> 1M Imidazole + 1mM EDTA +  
50mM(CH<sub>3</sub>COO)<sub>2</sub>Mg, pH7.2

Keywords : 1.oxytetracycline, 2.milk, 3.ODS, 4.FL,  
5.official method

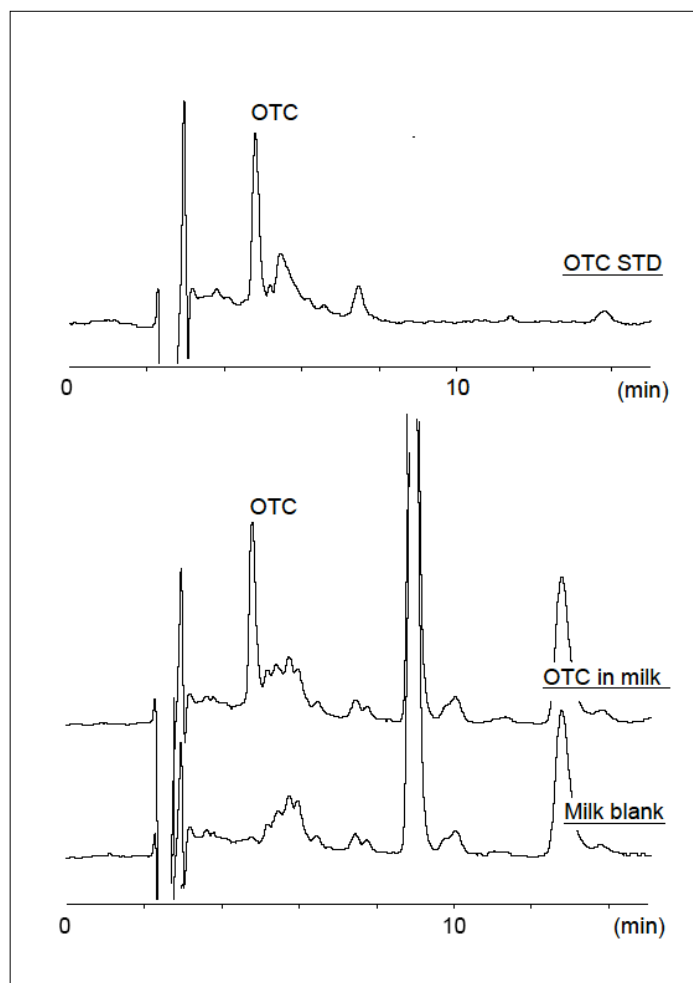


Fig. 2 Chromatograms of OTC standard sample and OTC spiked milk