Application Note
Date: No. 748003H-E

Analysis of thiabendazol, 5-hydroxythiabendazol and 5-propylsulfonyl -1H-benzimmidazol- 2-amin

Thiabendazole (TBZ) is used as a veterinary anthelmintic. In foodstuffs the quantities of the drug, its metabolic by-product 5-hydroxythiabendazole (5-H-TBZ), and the metabolic by-product of albendazole, 5-propylsulfonyl-1H-benzimidazole-2-amine (ALB-met) as well as the analytical methods used are controlled by food hygiene laws1,2).

Fig. 1 shows chromatograms of standard samples thiabendazole (TBZ), 5-hydroxythiabendazole (5-H-TBZ) and 5-propylsulfonyl-1 H-benzimidazole-2-amine (ALB-met).

Keywords : 1.TBZ etc, 2.STD, 3.ODS, 4.UV-FL, 5.official method

Conditions:

Column:	CrestPak SIL C18S
Eluent:	CH_3CN/25mM NaH_2PO_4(20/80)
Wave length:	Ex 300nm, Em 370nm(FL) 298nm(UV)
Flow rate:	0.8ml/min
Column temperature:	40 degree celsius
Sample:	STD(1ppm)
Injection volume:	20ul

< References >
1) Ministry of Health and Welfare Ordinance 34, March 28th, 1997
2) Ministry of Health and Welfare Ordinance 73, March 28th, 1997

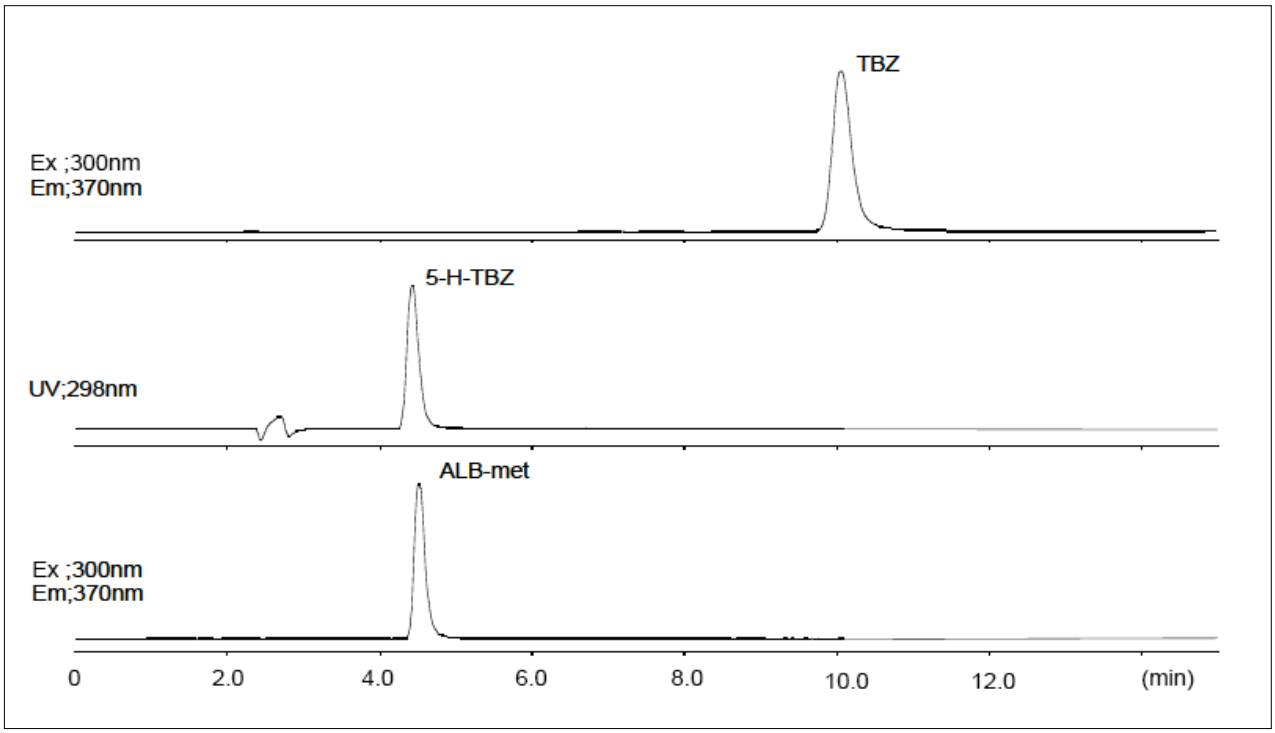

Fig. 1 CD and UV chromatograms of RS-ibuprofen

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