ELECTRONIC SUPPLEMENTARY MATERIAL

Determination of eight fungicides in tanned leather by liquid chromatography with mass spectrometry and with diode array spectrophotometric detection

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Fig. 1S. Typical HPLC-DAD chromatograms obtained for (a) mixed standard solution containing BNPD, PCMC, OPP, PRO 16 mg L^{-1} each; CBZ 5.0 mg L^{-1}; TCMTB, OIT 8.0 mg L^{-1} each and IS 5.0 mg L^{-1} and for the extract of sample 11 without standard addition and after three-point standard addition (details given in section 2.4): (b) analytical wavelength 220 nm, (c) 287 nm and (d) 330 nm.

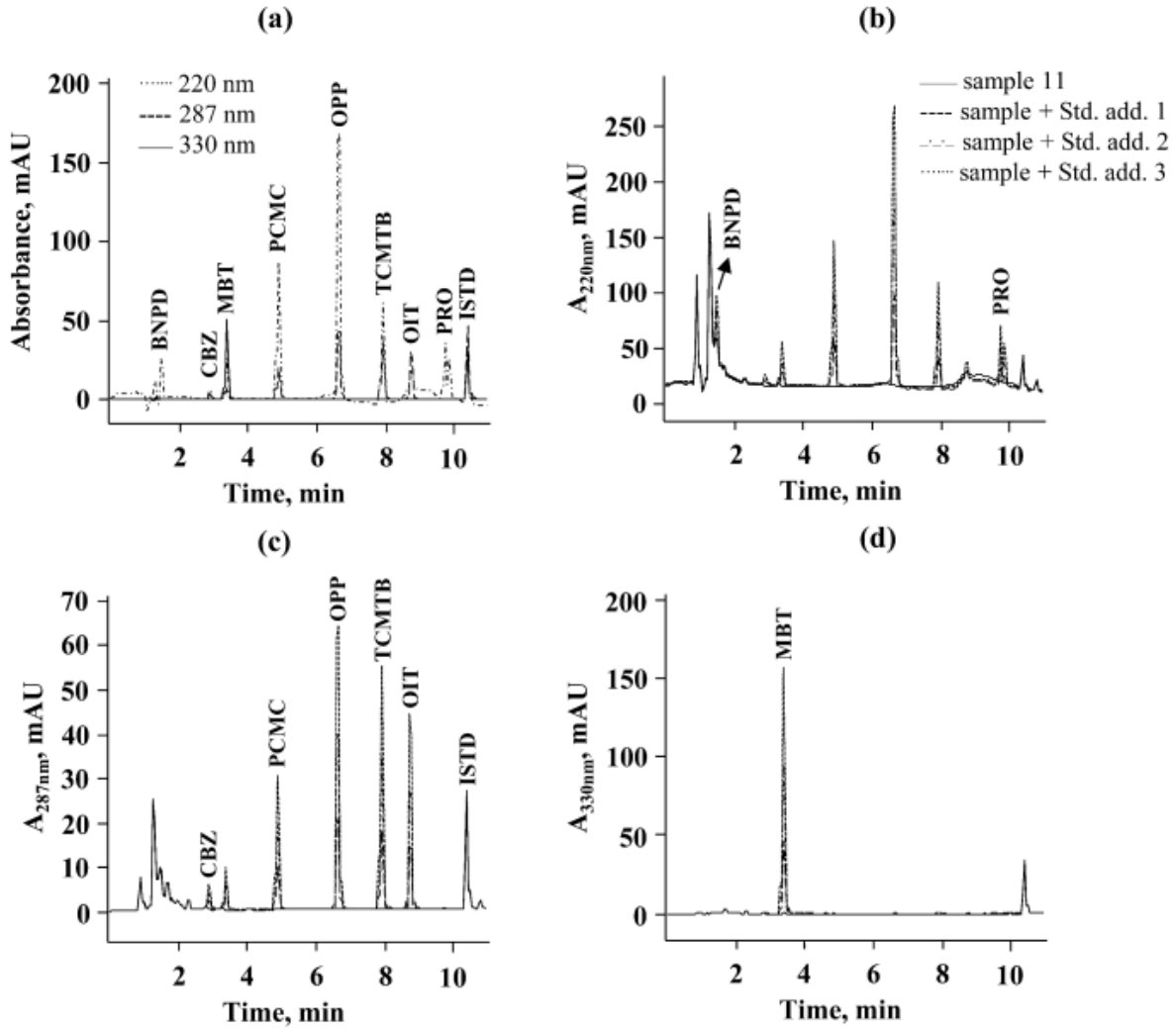

Table 1S. Analytical results obtained for ten random leather samples using two proposed procedures: HPLC-ESI-ITMS and HPLC-DAD. Mean values with respective standard deviations are presented based on three replicates.

sample	Fungicide concentration, mean value ± SD, μg g^{-1} (n=3)					
	CBZ	MBT	PCMC	OPP	TCMTB	OIT
HPLC-ESI-ITMS						
1	146 ± 3	< LOQ	< LOQ	< LOQ	< LOQ	< LOQ
2	< LOQ	20.2 ± 1.9	< LOQ	< LOQ	75.6 ± 1.8	225 ± 2
3	< LOQ	< LOQ	< LOQ	< LOQ	< LOQ	526 ± 8
4	< LOQ	< LOQ	24.5 ± 1.3	13.6 ± 1.2	< LOQ	202 ± 3
5	< LOQ	21.6 ± 2.2	63.9 ± 1.2	22.7 ± 1.1	114 ± 2	< LOQ
6	< LOQ	< LOQ	120 ± 1	126 ± 2	< LOQ	14.9 ± 0.9
7	< LOQ	< LOQ	38.6 ± 1.0	< LOQ	41.3 ± 1.8	385 ± 4
8	103 ± 2	< LOQ	< LOQ	< LOQ	< LOQ	34.0 ± 1.6
9	< LOQ	26.8 ± 0.9	< LOQ	< LOQ	476 ± 6	131 ± 2
10	42.8 ± 1.3	52.4 ± 1.2	< LOQ	< LOQ	12.6 ± 1.1	6.15 ± 1.1
HPLC-DAD						
1	164 ± 3	< LOQ	< LOQ	< LOQ	< LOQ	< LOQ
2	< LOQ	26.0 ± 0.6	< LOQ	< LOQ	78.9 ± 1.6	205 ± 3
3	< LOQ	< LOQ	< LOQ	< LOQ	< LOQ	497 ± 7
4	< LOQ	< LOQ	32.6 ± 0.2	18.3 ± 0.3	< LOQ	178 ± 2
5	< LOQ	21.9 ± 0.5	65.6 ± 0.6	39.0 ± 0.9	140 ± 0.1	< LOQ
6	< LOQ	< LOQ	132 ± 2	124 ± 2	< LOQ	15.5 ± 0.5
7	< LOQ	< LOQ	41.7 ± 0.6	< LOQ	49.4 ± 1.1	337 ± 7
8	108 ± 2	< LOQ	< LOQ	< LOQ	< LOQ	29.3 ± 1.0
9	< LOQ	29.3 ± 0.6	< LOQ	< LOQ	453 ± 7	113 ± 4
10	52.1 ± 0.5	40.6 ± 0.5	< LOQ	< LOQ	10.5 ± 0.2	7.72 ± 0.12