

Table 6-1. Final body and relative organ weights of rats treated with methoxychlor

Sex and dose (mg/kg bw)	Final body wt. (g)	Pituitary (mg/100g bw)	Thyroids (mg/100g bw)	Liver (g/100gbw)	Kidneys (g/100g bw)	Adrenals (mg/100g bw)	Seminal vesicle (g/100g bw)
Male							
0	440±30	2.9±0.2	4.4±0.7	4.11±0.21	0.71±0.04	14±1	0.34±0.06
20	426±39	2.8±0.3	4.8±0.9	4.21±0.36	0.71±0.06	13±2	0.32±0.03
100	359±28**	3.3±0.2**	5.4±0.5	4.31±0.14	0.79±0.06*	21±4**	0.19±0.05**
500	321±30**	3.4±0.2**	6.2±1.4**	4.84±0.22**	0.93±0.19**	22±3**	0.05±0.02**
Female							
0	259±14	5.4±0.4	5.6±0.7	3.82±0.23	0.71±0.05	24±3	
20	251±15	5.3±0.7	5.8±1.1	3.88±0.22	0.72±0.06	26±3	
100	229±18**	4.9±0.4	6.1±1.0	3.90±0.14	0.75±0.06	27±4	
500	241±20	4.7±0.8	6.1±0.8	4.82±0.31**	0.83±0.06**	29±5*	

*P<0.05, **P<0.01

Table 6-2. Final body and relative organ weights of rats treated with methoxychlor

Sex and dose (mg/kg bw)	Prostate			Epididymides (g/100g bw)	Testes (g/100g bw)	Ovaries (mg/100g bw)	Uterus (g/100g bw)
	Ventral (g/100g bw)	Dorsolateral (g/100g bw)	Combined (g/100g bw)				
Male							
0	0.12±0.02	0.11±0.02	0.22±0.03	0.21±0.01	0.74±0.08		
20	0.12±0.04	0.10±0.03	0.22±0.06	0.22±0.03	0.75±0.08		
100	0.09±0.03	0.08±0.02	0.17±0.03*	0.23±0.02	0.88±0.05**		
500	0.03±0.02**	0.04±0.01**	0.08±0.04**	0.14±0.51	0.65±0.15		
Female							
0						31.6±3.5	0.15±0.02
20						30.6±5.0	0.16±0.01
100						30.0±3.7	0.21±0.04**
500						24.4±4.2**	0.16±0.02

*P<0.05, **P<0.01

Table 7. Body and relative organ weights at the end of the experiment

Group	Body Weight, g	Liver	Kidney(R)	Kidney(L)
Cont/M	390.4 ± 21.1	3.90 ± 0.26	0.35 ± 0.02	0.35 ± 0.02
AAP/M	320.6 ± 24.6 **	4.16 ± 0.12	0.40 ± 0.02	0.41 ± 0.03
EE0.5/M	396.6 ± 17.4	3.68 ± 0.10	0.34 ± 0.02	0.33 ± 0.03
EE5/M	406.5 ± 7.5	4.09 ± 0.26	0.33 ± 0.02	0.34 ± 0.02
EE50/M	382.0 ± 33.2	4.10 ± 0.34	0.35 ± 0.02	0.36 ± 0.02
EE50/M-Cast	328.0 ± 7.7 **	4.03 ± 0.34	0.32 ± 0.02	0.34 ± 0.02
Cont/F	233.7 ± 11.5	3.50 ± 0.30	0.36 ± 0.01	0.35 ± 0.01
TP1/F	234.8 ± 12.8	3.61 ± 0.16	0.39 ± 0.01	0.37 ± 0.02
TP10/F	231.3 ± 15.8	3.47 ± 0.27	0.37 ± 0.02	0.37 ± 0.02
TP100/F	250.6 ± 4.1	3.53 ± 0.28	0.37 ± 0.04	0.36 ± 0.04
TP100/F-Cast	265.5 ± 13.5 **	3.76 ± 0.30	0.28 ± 0.15	0.39 ± 0.10

Data represent mean values ± S.D.

** Significantly different from the control group at p<0.01.

Table 8. Relative weights of reproductive organ at the end of the experiment

Male	Testis(R)	Testis(L)	Epididymis(R)	Epididymis(L)	Prostate, ventral lobe	Seminal gland + Coagulation gland + Prostate
Cont/M	0.41 ± 0.04	0.40 ± 0.04	0.11 ± 0.01	0.11 ± 0.01	0.11 ± 0.04	0.38 ± 0.06
AAP/M	0.47 ± 0.06	0.42 ± 0.06	0.12 ± 0.02	0.10 ± 0.02	0.10 ± 0.02	0.35 ± 0.04
EE0.5/M	0.41 ± 0.06	0.41 ± 0.07	0.11 ± 0.01	0.09 ± 0.01	0.12 ± 0.02	0.37 ± 0.06
EE5/M	0.39 ± 0.03	0.39 ± 0.04	0.11 ± 0.01	0.10 ± 0.01	0.11 ± 0.02	0.38 ± 0.02
EE50/M	0.41 ± 0.04	0.41 ± 0.04	0.12 ± 0.02	0.10 ± 0.02	0.10 ± 0.06	0.38 ± 0.04
EE50/M-Cast			0.03 ± 0.01**	0.02 ± 0.01**	0.01 ± 0.01**	0.07 ± 0.01**

Female	Ovary(R)	Ovary(L)	Uterus
Cont/F	0.016 ± 0.003	0.016 ± 0.002	0.262 ± 0.080
TP1/F	0.018 ± 0.004	0.018 ± 0.002	0.204 ± 0.024
TP10/F	0.018 ± 0.003	0.017 ± 0.004	0.195 ± 0.041
TP100/F	0.015 ± 0.005	0.014 ± 0.003	0.194 ± 0.039
TP100/F-Cast			0.060 ± 0.007**

Data represent mean values ± S.D.

** Significantly different from the control group at p<0.01.

Table 9. Serum hormone levels at the end of the experiment

Group	Estradiol, pg/ml	Testosterone, ng/ml
Cont/M	4.5 ± 1.5	1.6 ± 0.5
AAP/M	3.9 ± 0.7	1.4 ± 1
EE0.5/M	4.5 ± 0.9	1.5 ± 0.9
EE5/M	3.7 ± 0.4	1.3 ± 0.4
EE50/M	3.8 ± 0.7	2.1 ± 2.7
EE50/M-Cast	4.0 ± 0.5	0.1 ± 0.1
Cont/F	19.8 ± 18.8	0.9 ± 1.6
TP1/F	3.6 ± 1.2*	0.1 ± 0
TP10/F	10.1 ± 9.8	0.1 ± 0
TP100/F	5.2 ± 2.1	5.7 ± 10.1
TP100/F-Cast	2.4 ± 0.4*	0.1 ± 0

Data represent mean values ± S.D.

* Significantly different from the control group at p<0.05.

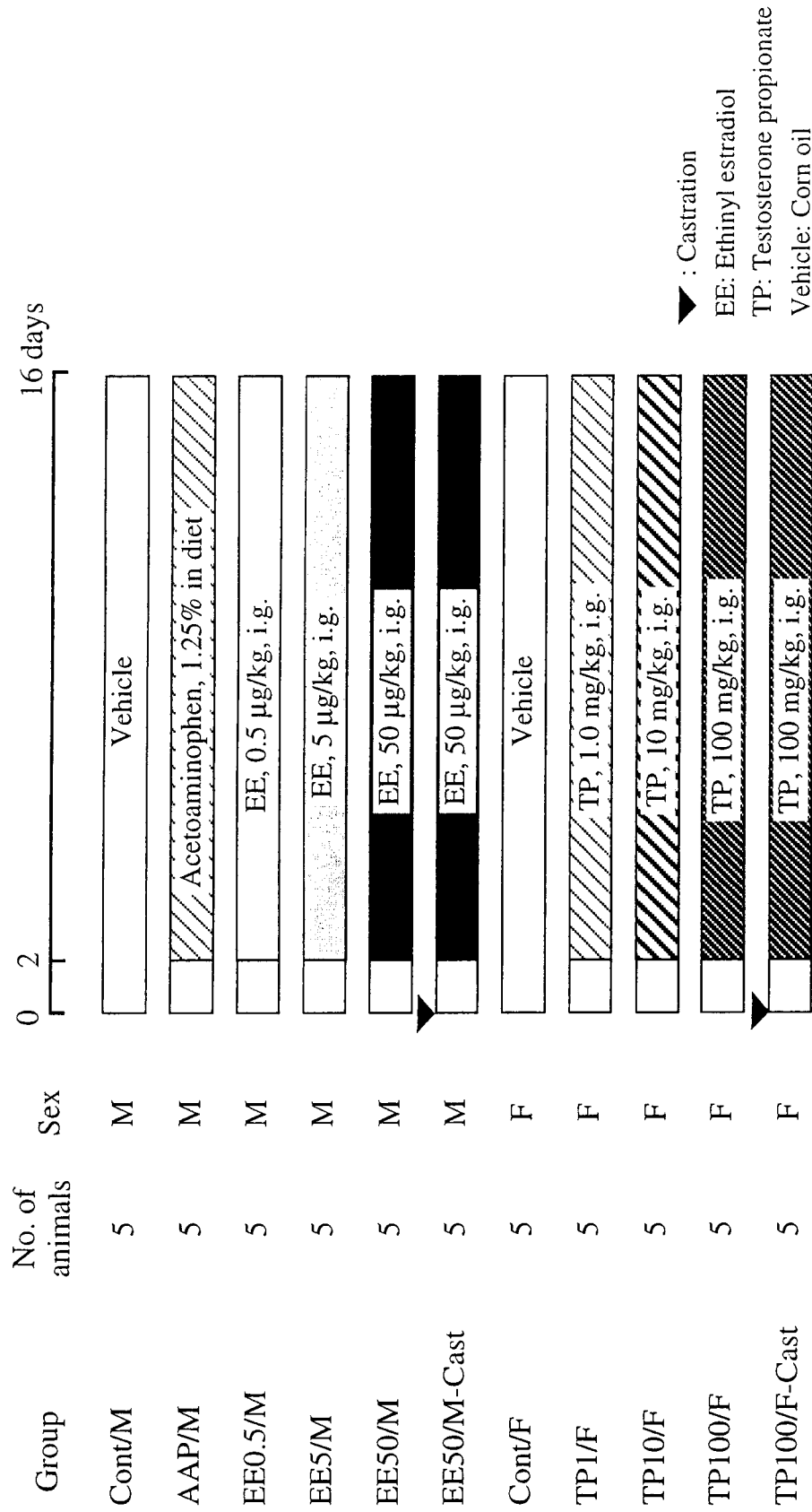


Fig.1. Experimental design

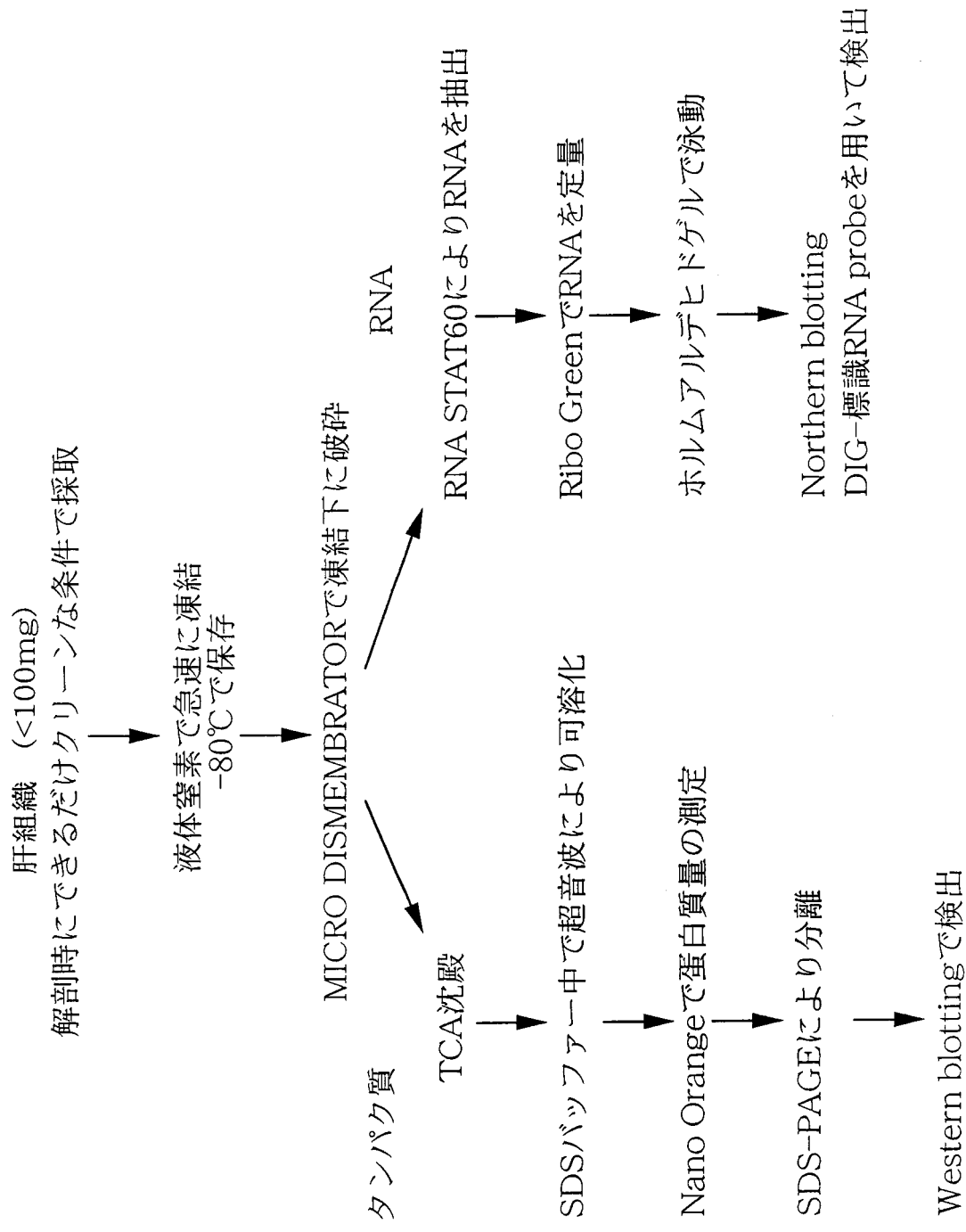


Fig.2 Schematic representation of the sample preparation for both Western and Northern blotting analyses

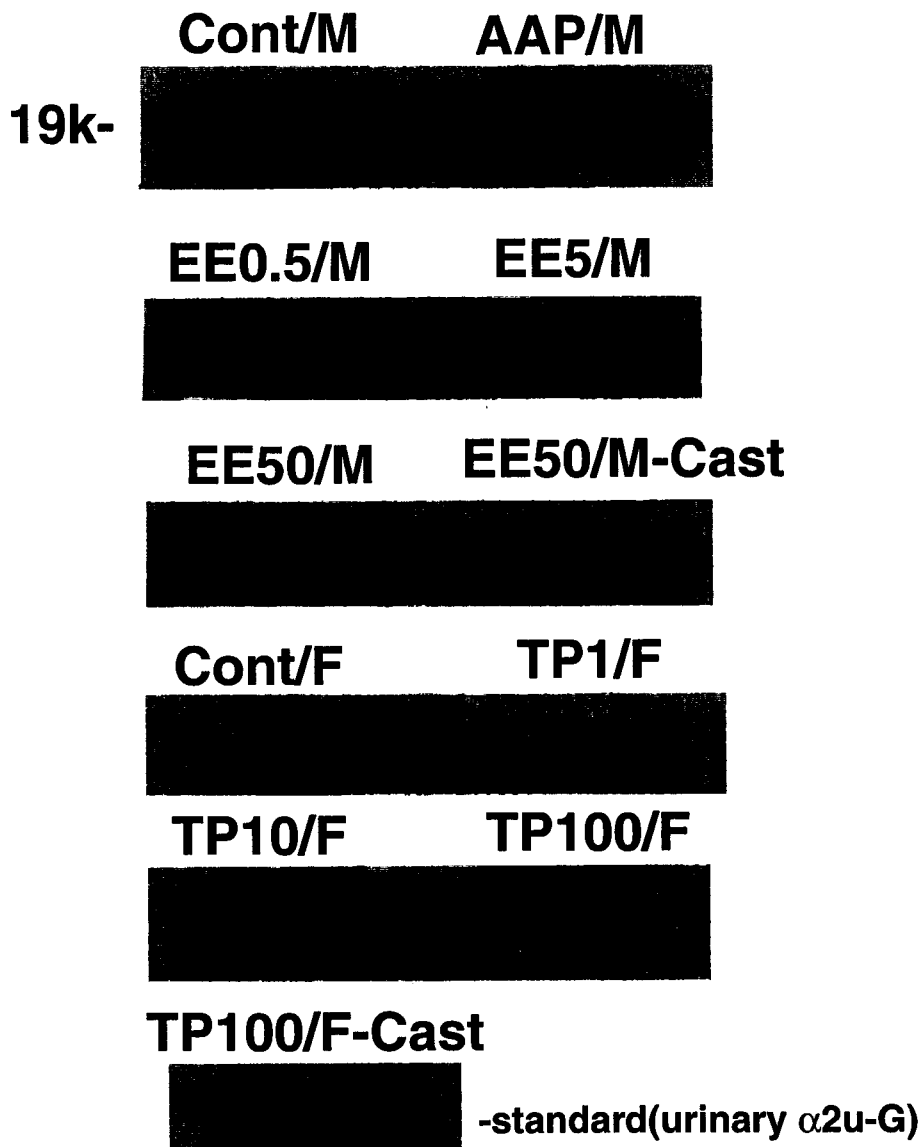


Fig. 3 Expression levels of α 2u-globulin in the liver

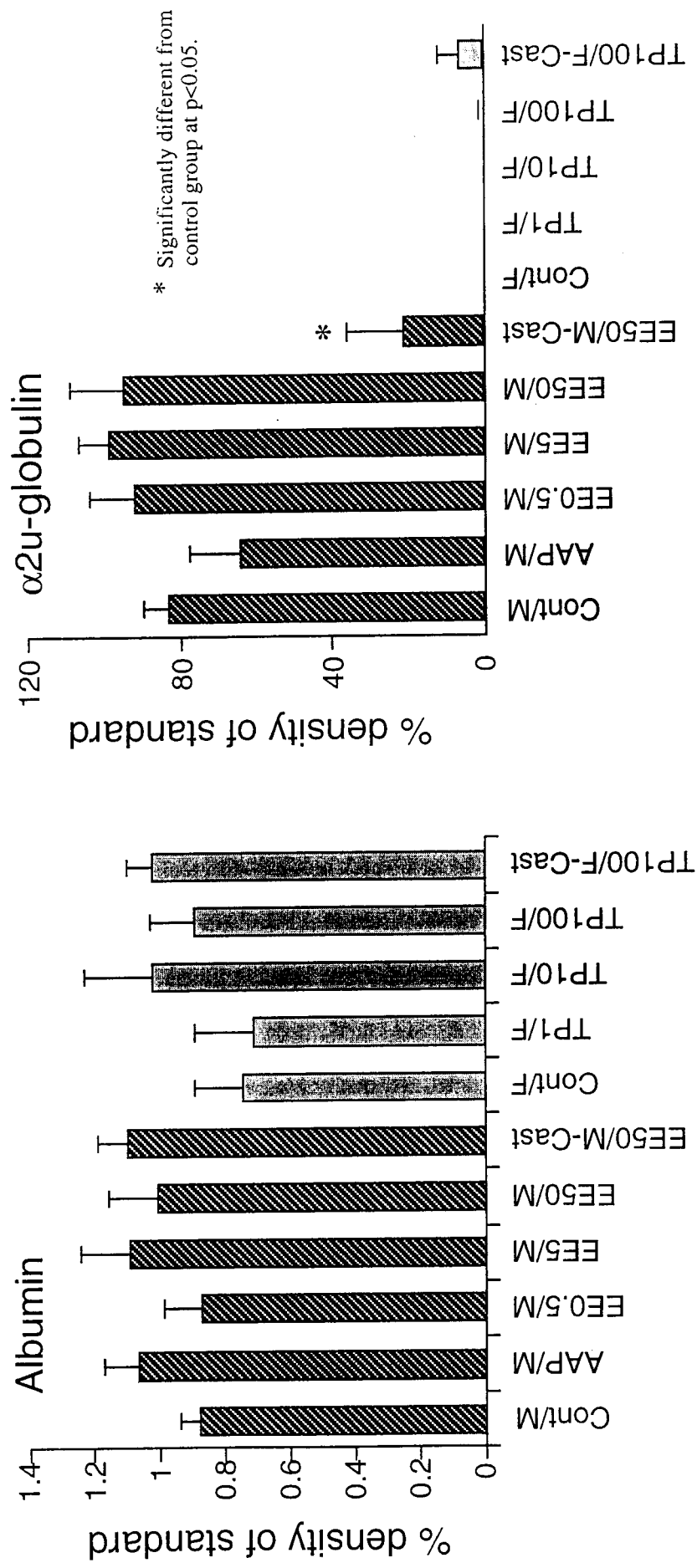


Fig.4. Expression levels of $\alpha 2u$ -globulin and albumin in the livers.

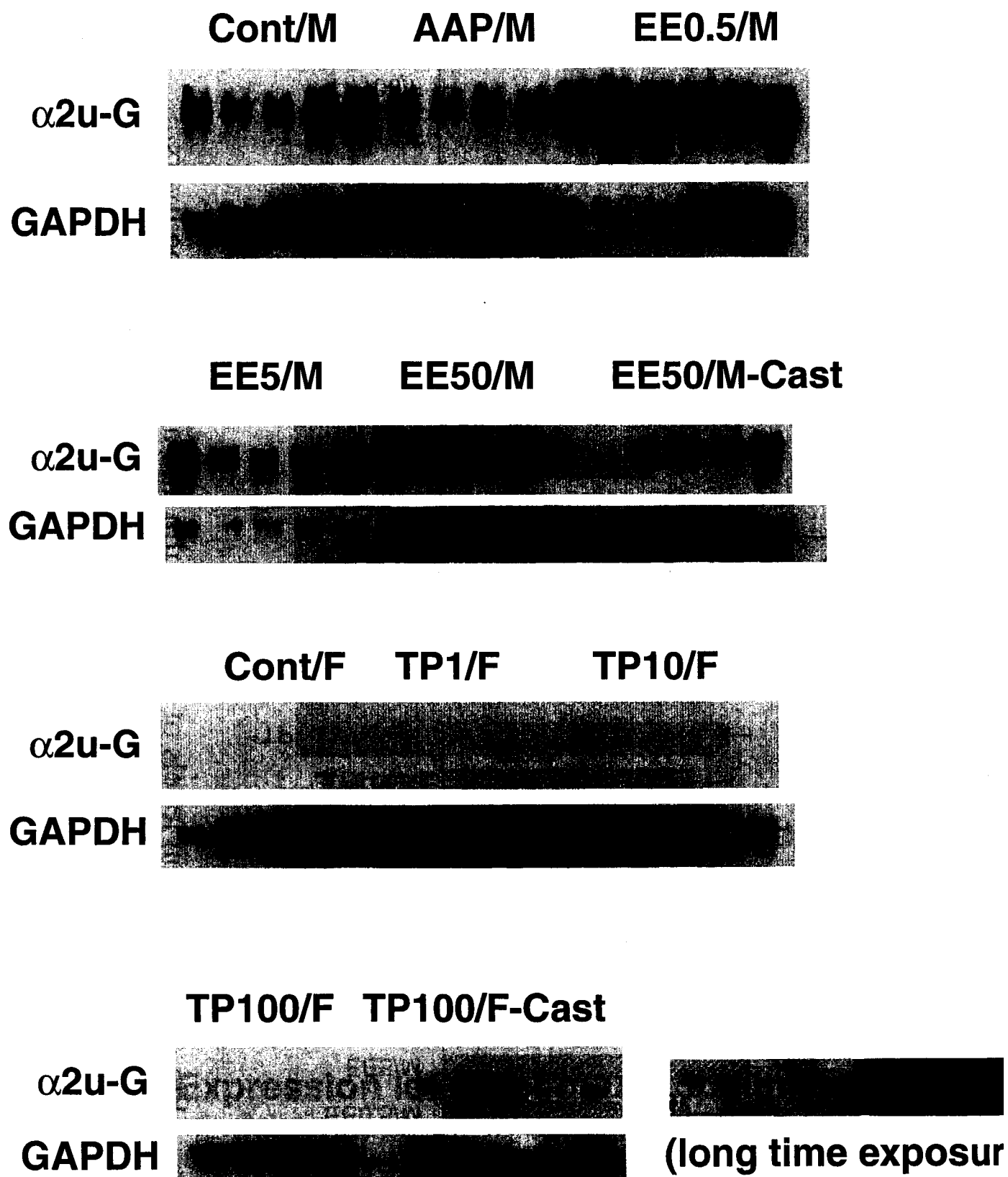


Fig. 5 Expression levels of $\alpha 2u$ -globulin mRNA in the livers

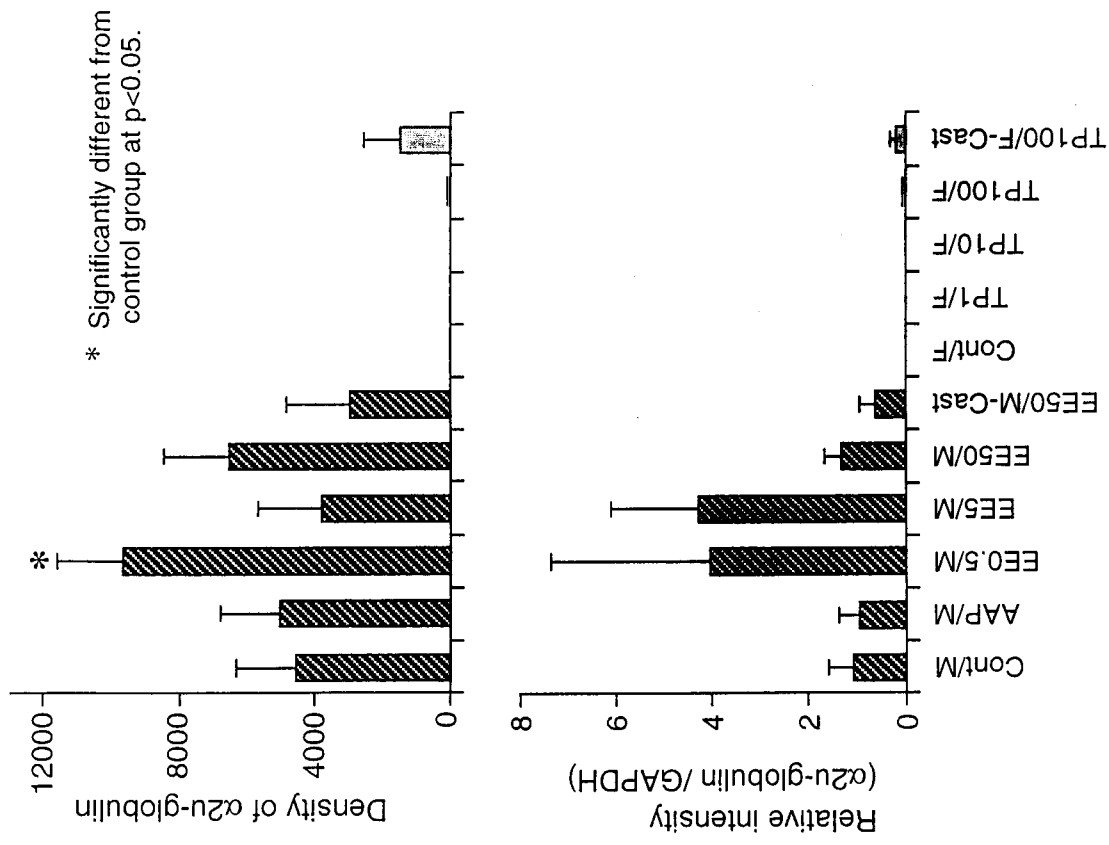


Fig. 6 Liver $\alpha 2u$ -globulin mRNA level determined by Northern blotting