

COSMO FKA 408 and 407

The Cross reactivities of anti Cortisone-3-CMO-BSA serum by EIA

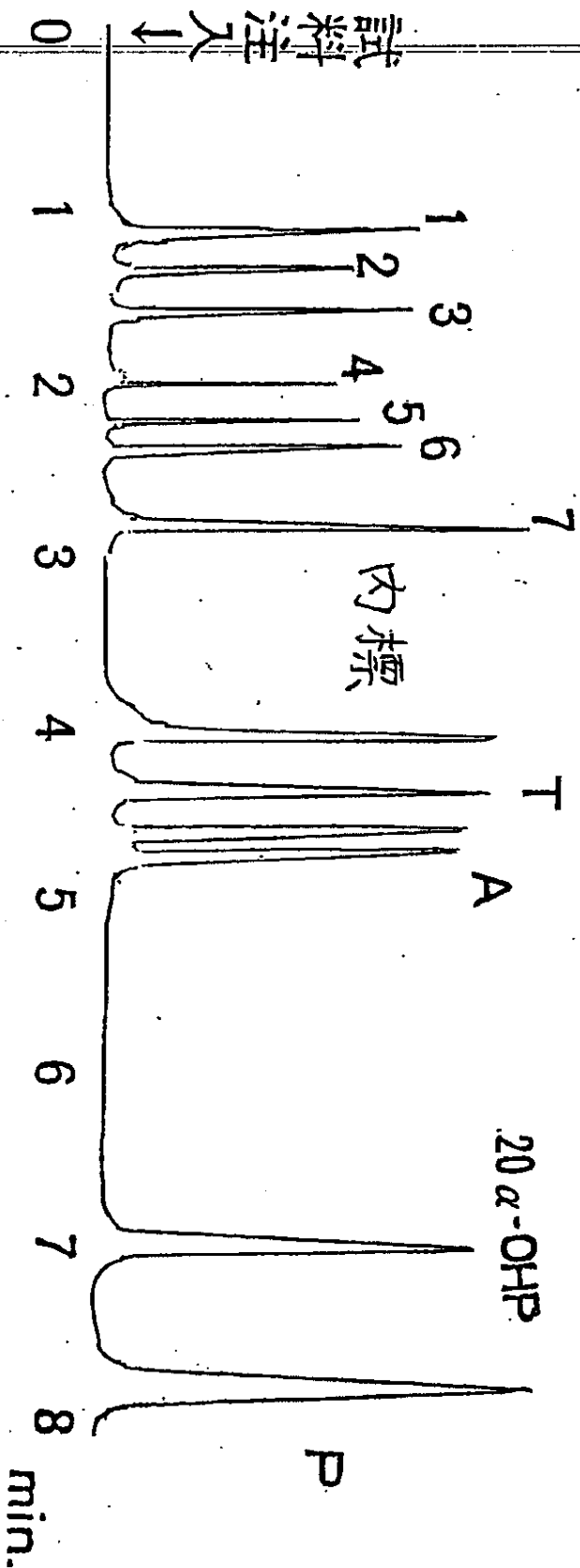
Antigen	Cortisone-3-CMO-BSA rabbit No.37-2
Dilution of Antiserum	x25,000
Label	Cortisone-3-CMO-HRP (FKA 407) x5,000
O. D. (492/600nm) of B ₀	0.8
Cortisone dose of B ₀ /2	4ng/ml (200 pg/well)

Steroid	Cross Reaction
Cortisone (Compd. E)	100 %
Cortisol (Compd. F)	4 %
17-hydroxy-11-deoxy-corticosterone (Compd. A)	2 %
Compd. S	0.3 %
Corticosterone (Compd. B)	0.08 %
17 α -Hydroxy-progesterone (17 α -OHP ₄)	0.04 %
Progesterone	0.035%
Testosterone	0.02 %
Androstenedione	0.006%
Aldosterone	> 0.01 %
Pregnenolone	> 0.01 %
17 α -Hydroxy-pregnenolone	> 0.01 %
Dehydroepiandrosterone	> 0.01 %
Estradiol	> 0.01 %

The Cross reactivities of anti Cortisol serum by RIA & ELISA (10/8, '92) A.K.

Ab.	RIA	ELISA	RIA	ELISA
	F-21-Suc-BSA Lot.No. 18 x20,000	F-21-Suc-BSA Lot.No. 18 x20,000	F-3-CMO-BSA Lot.No. 302 x40,000	F-3-CMO-BSA Lot.No. 302 x50,000
label	F-1,2- ³ H 10,000dpm	F-21-HRP x500	F-1,2- ³ H 10,000dpm	F-3-HRP x500
B ₀ /T & O.D.	41 % (DCC)	0.67 (OD)	35 % (DCC)	0.39 (OD)
F dosage of B ₀ /2	300pg	325 pg	390 pg	700 pg
Cortisol	100 %	100 %	100 %	100 %
S	31 %	16.0 %	16.6 %	11.3 %
Cortisone	6.0 %	5.4 %	11.0 %	6.0 %
B	3.6 %	0.93%	1.7 %	1.2 %
17 α -OHP ₄	13.0 %	24.0 %	0.9 %	0.93%
P ₄	2.0 %	1.5 %	0.1 %	0.03%
Aldosterone	1.0 %	0.2 %	0.03%	0.03%
P-17 α ,20 β ,21 -triol	16.0 %	20.0 %	2.2 %	1.3 %
P-17 α ,20 β - diol	14.0 %	17.0 %	1.2 %	0.5
11-Keto-T	1.1 %	1.0 %	0.05%	0.03 %
T	0.5 %	0.25%	0.01%	0.01 %
18-OH-B	0.10%	0.10%	0.09%	0.03 %
E ₂	0.01%	0.01%	0.015%	0.01 %

HPLCによるステロイドの溶出パターン



- 1 6β-OHF
- 2 6β-OHE
- 3 Aldosterone
- 4 Cortisol
- 5 Cortisone
- 6 Corticosterone
- 7 Compd S

Column : Unisil C₁₈ 5 μm 4.6 × 250 mm

Mobil Phase : CH₃CN/H₂O 7 : 3

Pressure 100 kg/cm²

Flow rate 1.5 ml/min

Detector UV 245 nm