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APPENDIX

ศูนย์วิทยทรัพยากร  
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Table 6. The result of cytosolic PgR assay in 120 human breast tumor specimens

AC	=	Adenocarcinoma
B	=	Benign
CP	=	Cystosarcoma phylloides
F	=	Fibroadenoma
FD	=	Fibrocystic disease
G	=	Gynaecomastia
GF	=	Giant fibroadenoma
IDC	=	Infiltrating ductal carcinoma
M	=	Malignant
MC	=	Medullary carcinoma
MuC	=	Mucinous carcinoma
PC	=	Papillary intraductal carcinoma

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Case No	Age	Histopathology	Protein mg/ml	DNA mg	ER	PgR	PgR		
							fmol/mg protien	Kd x 10 <sup>-9</sup> M	fmol/ $\mu$ g DNA
2	51	IDC	6.4	.085	-	+	129.9	1.29	0.24
3	49	B	3.4	.095	-	+	129.7	2.00	0.23
4	60	M	6.6	.105	-	+	143.2	2.67	0.30
6	66	M	9.6	.140	+	+	210.0	5.04	0.36
7	68	MC	9.1	.160	+	+	68.6	1.48	0.13
8	67	M	1.6	.060	+	-	-	-	-
9	41	PC	7.8	1.140	+	-	-	-	-
11	41	PC	3.36	2.200	-	-	-	-	-
18	41	IDC	6.2	.120	+	+	212.0	5.12	0.37
44	44	IDC	9.1	.047	+	-	-	-	-
45	45	IDC	12.8	.020	+	+	103.4	6.52	2.54
46	49	IDC	7.2	.020	+	-	-	-	-
47	60	IDC	7.5	.017	+	-	-	-	-
48	34	IDC	14.6	.027	-	-	-	-	-
49	50	M	6.7	.023	+	+	885.4	12.66	3.97
50	30	IDC	7.0	.020	-	-	-	-	-
52	38	IDC	10.6	.037	+	-	-	-	-
53	47	B	3.6	.030	+	+	285.0	5.89	1.14
58	30		8.7	.034	-	+	21.6	0.90	0.21
59	49	IDC	5.7	.013	-	+	465.8	15.45	7.85

Case No	Age	Histopathology	Protien mg/ml	DNA mg	ER	PgR	PgR		
							fmol/mg protien	Kd x 10 <sup>-9</sup> M	fmol/ $\mu$ g DNA
60	65	IDC	6.5	.040	+	+	103.2	2.34	0.65
61	49	IDC	9.8	.232	+	+	19.1	1.56	0.03
65	51	IDC	3.6	.030	+	+	195.7	4.50	0.90
66	52	IDC	9.7	.235	+	+	152.0	10.69	0.48
67	64	IDC	6.1	.155	+	+	242.3	6.30	0.37
68	52	IDC	10.8	.035	+	+	353.5	12.57	2.51
69	58	IDC	14.8	.095	+	+	87.8	8.76	1.05
71	52	IDC	4.2	.336	+	+	281.7	5.04	0.14
72	22	F	5.4	.210	+	+	683.5	14.43	0.67
74	30	IDC	9.0	.360	-	+	202.9	7.97	0.20
75	52	FD	2.7	.335	-	+	602.9	7.39	0.19
76	29	F	10.9	.160	+	-	-	-	-
77	50	F	5.3	.210	+	+	163.8	10.42	0.16
78	49	F	9.0	.165	+	+	557.5	20.90	0.56
81	35	F	5.7	.275	+	+	146.9	10.63	0.15
86	32	IDC	4.1	.006	-	+	77.0	5.02	1.93
88	52	MC	8.4	.009	+	+	74.8	6.60	1.61
89	52	IDC	5.3	.003	+	+	29.6	1.94	1.75
90	45	IDC	5.0	.003	-	+	52.5	2.73	2.28
91	32	IDC	8.0	.009	-	-	-	-	-

Case No	Age	Histopathology	Protien mg/ml	DNA mg	ER	pgR	PgR		
							fmol/mg protien	Kd x 10 <sup>-9</sup> M	fmol/μg DNA
92	29	IDC	11.0	.026	+	-	-	-	-
93	81	PC	8.1	.006	+	-	-	-	-
94	64	IDC	6.8	.003	-	+	164.8	0.13	7.47
95	72	PC	10.4	.135	+	-	-	-	-
96	51	MC	6.5	.019	+	+	71.0	5.46	0.75
97	61	IDC	7.5	.039	+	+	40.0	4.57	0.16
98	61	IDC	5.0	.013	+	+	58.5	6.68	0.78
101	42	M	7.5	.006	+	+	31.3	2.50	1.50
102	50	MuC	3.5	.013	+	+	182.2	4.10	1.89
103	44	IDC	7.2	.002	+	+	189.1	4.92	1.31
104	47	IDC	9.4	.006	+	+	300.0	9.15	1.80
105	64	PC	8.4	.006	+	+	198.4	6.14	1.60
106	47	IDC	3.7	.002	+	+	170.2	6.05	1.58
107	39	FD	6.0	.006	-	+	124.4	6.23	10.06
108	26	G	4.6	.002	-	+	286.3	7.43	33.21
109	58	IDC	3.9	.006	+	+	228.6	5.64	5.94
110	43	IDC	3.8	.006	-	+	388.4	11.65	9.81
111	50	IDC	4.8	.006	+	+	281.5	7.64	8.99
112	60	IDC	5.8	.040	-	+	251.3	9.02	1.38
113	52	IDC	3.6	.023	+	+	428.5	9.87	2.52

Case No	Age	Histopathology	Protien mg/ml	DNA mg	ER	PgR	PgR		
							fmol/mg protien	Kd x 10 <sup>-9</sup> M	fmol/ug DNA
114	42	IDC	12.8	.012	+	+	97.7	7.53	4.13
115	49	IDC	8.1	.040	-	+	161.2	4.75	1.23
116	33	IDC	6.1	.009	+	+	208.7	5.43	5.68
117	51	M	4.9	.017	+	+	168.5	4.65	1.83
118	62	IDC	5.4	.009	-	-	-	-	-
120	31	IDC	8.1	.006	+	-	-	-	-
121	47	B	5.8	.006	+	+	145.0	4.82	5.67
122	35	AC	19.2	.173	+	+	93.9	5.17	0.40
123	45	IDC	8.5	.017	-	+	427.4	11.26	6.45
124	48	IDC	5.4	.012	-	+	564.3	11.02	10.16
125	49	IDC	3.5	.006	-	+	448.2	7.15	10.54
126	43	G	3.6	.006	-	-	-	-	-
128	57	-	3.8	.006	-	+	557.6	7.52	10.96
129	36	FD	4.4	.009	-	-	-	-	-
130	57	IDC	6.6	.012	+	+	443.5	12.19	9.42
131	53	IDC	8.9	.009	+	-	-	-	-
132	32	IDC	7.0	.024	+	+	666.1	15.73	6.02
133	58	-	5.8	.024	+	+	651.1	16.88	6.10
134	47	IDC	5.7	.042	+	+	201.9	5.39	1.06
135	53	IDC	5.7	.054	+	+	258.2	5.65	2.11



Case No	Age	Histopathology	Protien mg/ml	DNA mg	ER	Pgr	Pgr		
							fmol/mg protien	Kd x 10 <sup>-9</sup> M	flol/ $\mu$ g DNA
136	33	IDC	4.6	.030	+	-	-	-	-
137	42	FD	4.6	.036	+	+	372.7	5.99	4.44
138	32	FD	5.2	.046	+	+	1,015.0	12.68	5.70
139	33	F	6.2	.042	+	+	404.3	10.15	4.06
142R	41	F	8.9	-	-	-	593.6	12.68	4.88
143	54	MC	6.9	.015	-	-	-	-	-
144	33	FD	8.2	.015	-	+	336.0	5.88	6.87
145	48	IDC	6.7	.015	+	+	1,214.0	19.50	20.26
146	37	IDC	8.3	.015	+	+	1,504.0	28.23	31.17
147	44	IDC	6.5	.012	+	+	706.3	15.64	21.50
148	35	IDC	11.2	.015	+	+	288.0	8.07	11.22
149	35	IDC	6.3	.015	+	+	911.2	11.60	14.32
150	53	IDC	8.5	.031	+	+	1,609.2	27.27	13.55
151	41	FD	7.2	.015	+	+	1,250.0	19.38	23.00
152	65	CP	9.3	.023	+	-	-	-	-
153	45	GF	6.0	.200	+	+	266.4	13.73	0.67
154	44	FD	5.9	.023	-	+	106.8	6.06	2.32
155	44	FD	5.5	.031	-	+	521.7	18.75	3.87
156	49	FD	5.6	.019	+	+	365.6	17.20	6.16
157	40	IDC	8.8	.019	+	+	250.0	12.50	4.74





Case No	Age	Histopathology	Protien mg/ml	DNA mg	ER	PgR	PgR		
							fmol/mg protien	Kd x 10 <sup>-9</sup> M	fmol/ $\mu$ g DNA
158	55	IDC	8.1	.031	+	+	428.8	23.14	4.70
159	39	FD	5.1	.015	-	+	317.1	11.89	4.32
161	39	F	6.3	.023	+	+	323.1	7.20	2.20
162	52	IDC	9.4	.023	-	-	-	-	-
163	48	IDC	7.4	.023	+	+	976.2	1.73	0.80
164	52	CP	4.0	.023	+	-	-	-	-
165	19	B	5.9	.025	+	+	178.9	4.56	1.79
166	29	IDC	2.5	.023	-	+	286.7	2.89	1.34
167	56	G	6.3	.015	+	+	114.9	2.89	2.00
168	37	IDC	4.9	.015	-	+	338.5	6.36	4.24
169	35	IDC	10.2	.008	+	+	99.2	3.83	5.62
170	60	M	9.0	.015	+	+	266.3	15.00	4.90
171	42	IDC	4.8	.070	-	+	380.4	13.20	1.00
173	48	MC	6.5	.050	-	+	364.0	14.67	1.82
175	36	-	9.4	.015	-	+	89.2	3.42	2.15
177	37	IDC	6.6	.013	-	+	84.4	1.79	1.70
178	27	-	7.7	.018	-	+	196.3	10.01	3.32
179	35	-	7.4	.025	+	+	160.2	7.33	1.82
180	50	-	4.4	.030	+	-	-	-	-
181	31	-	7.5	.030	+	+	356.1	9.05	2.05

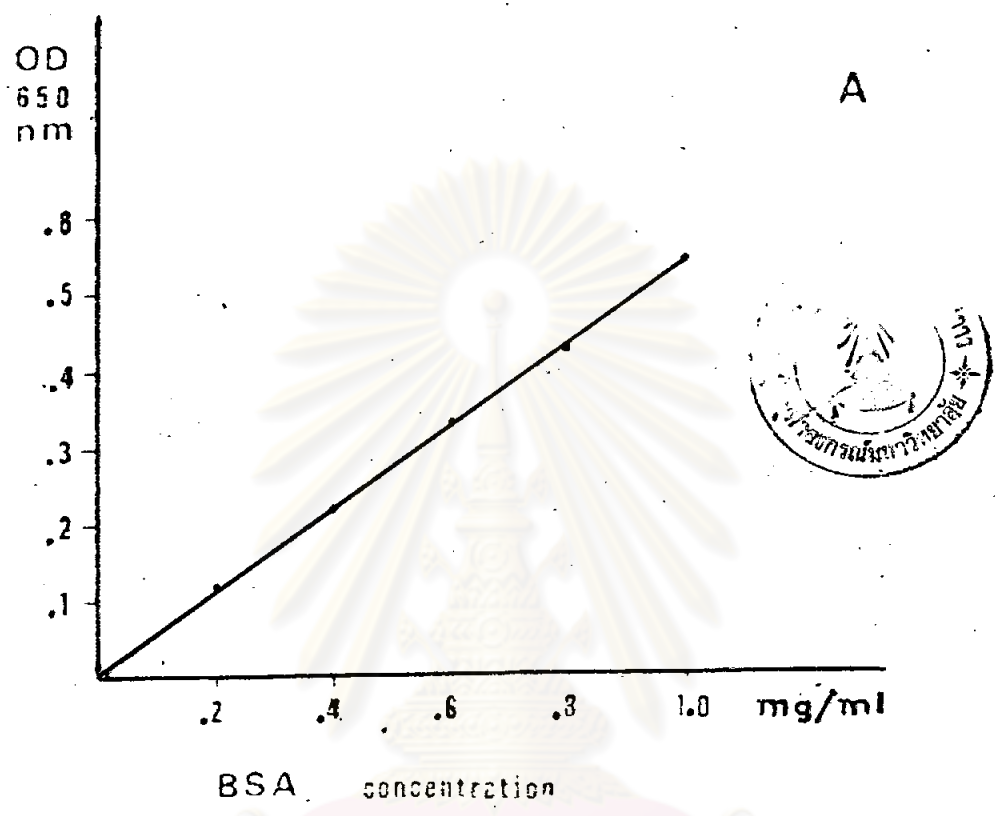


Figure 9. Standard curve of BSA by Lowry (25) method.

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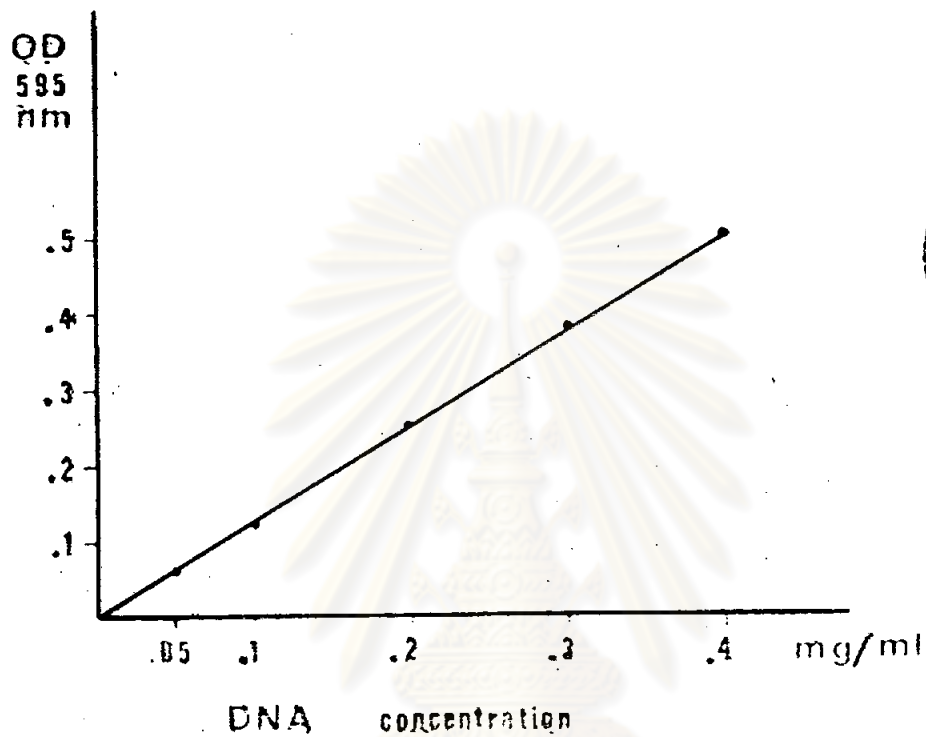


Figure 10. Standard curve of DNA  
by Giles and Mayers (26) method.

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Figure II. Scatchard plot of the data from a DCC assay for PgR in breast tumor cytosol

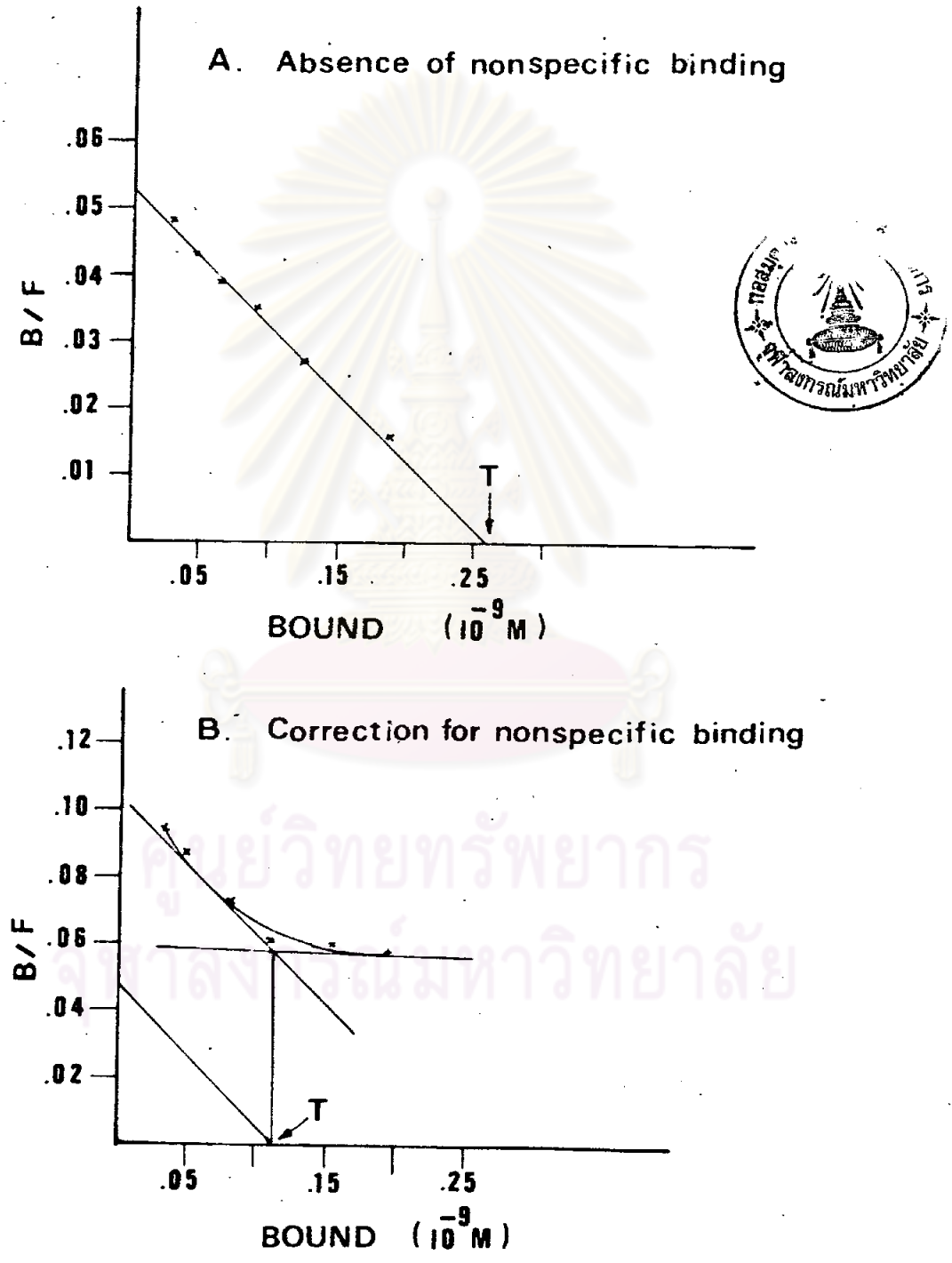


Figure 12 A. The BSA profile

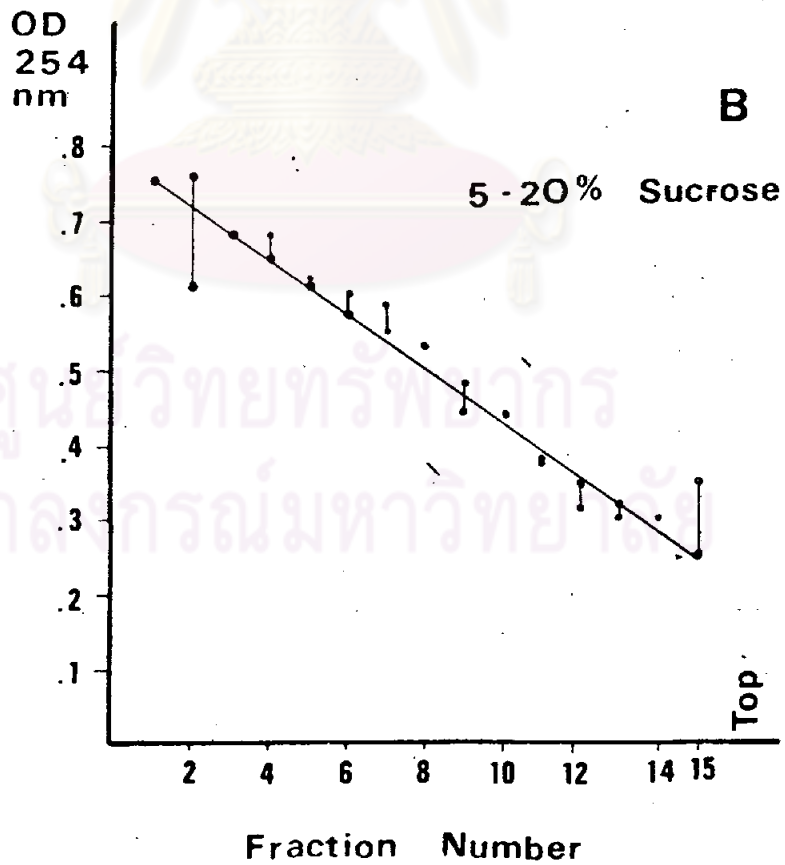
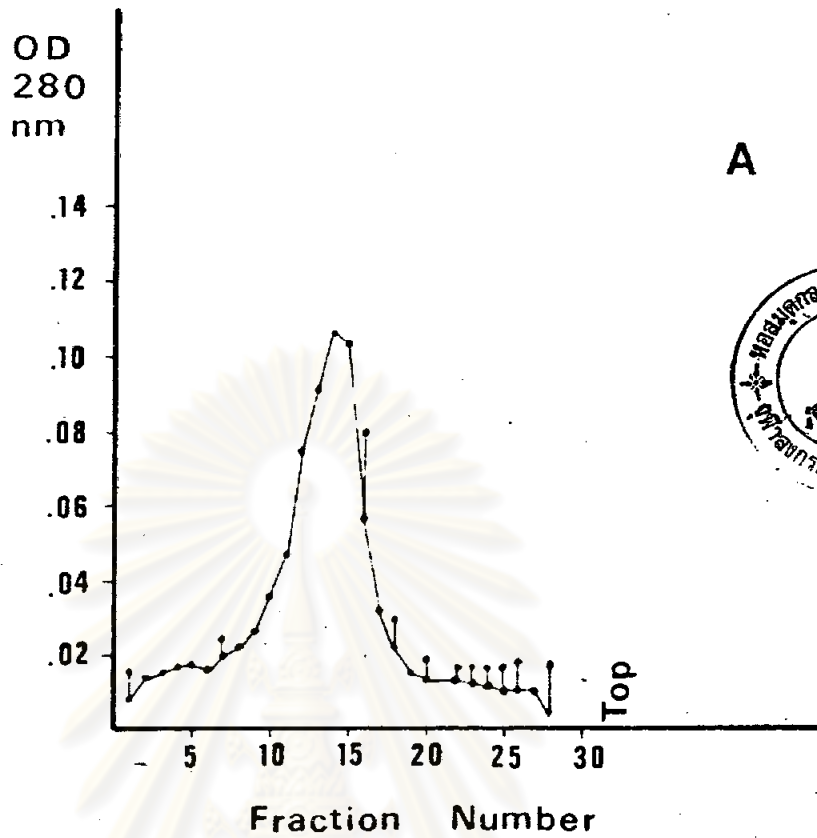
When the sedimentation analysis was performed, the BSA was used as the marker. The BSA profile was shown by the measurement of absorbance at 280 nm.

B. The sucrose linear gradient

5 - 20% sucrose linear gradient was proved by the absorbance of potassium acid pathalate at 254 nm when it was added in the gradient as the marker.



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