

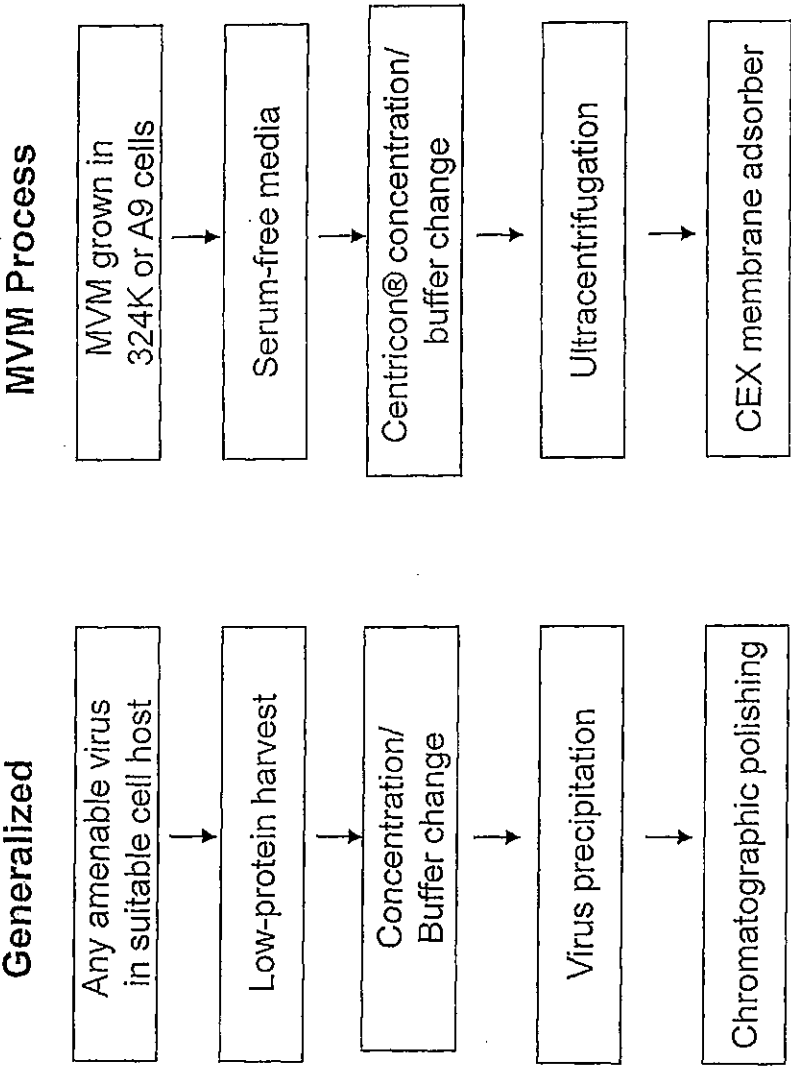


FIG. 1

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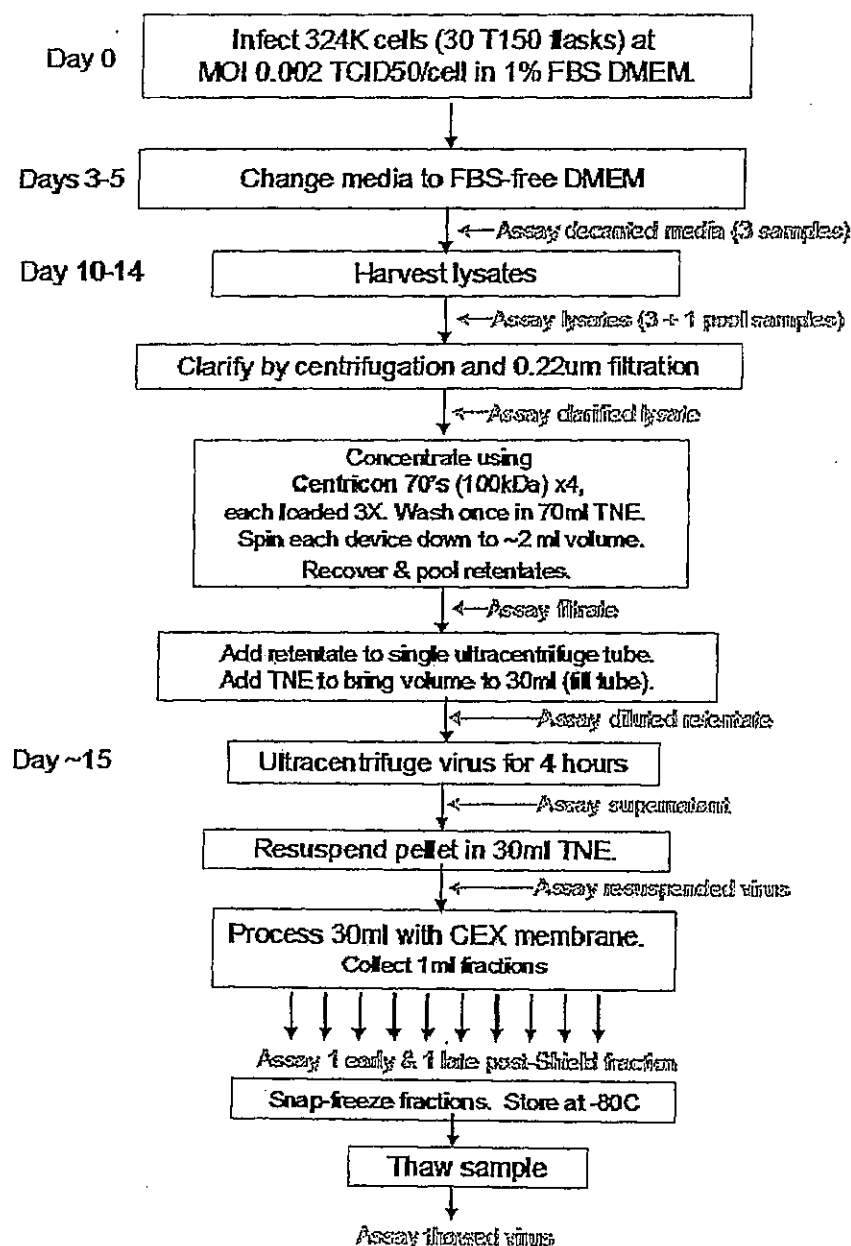
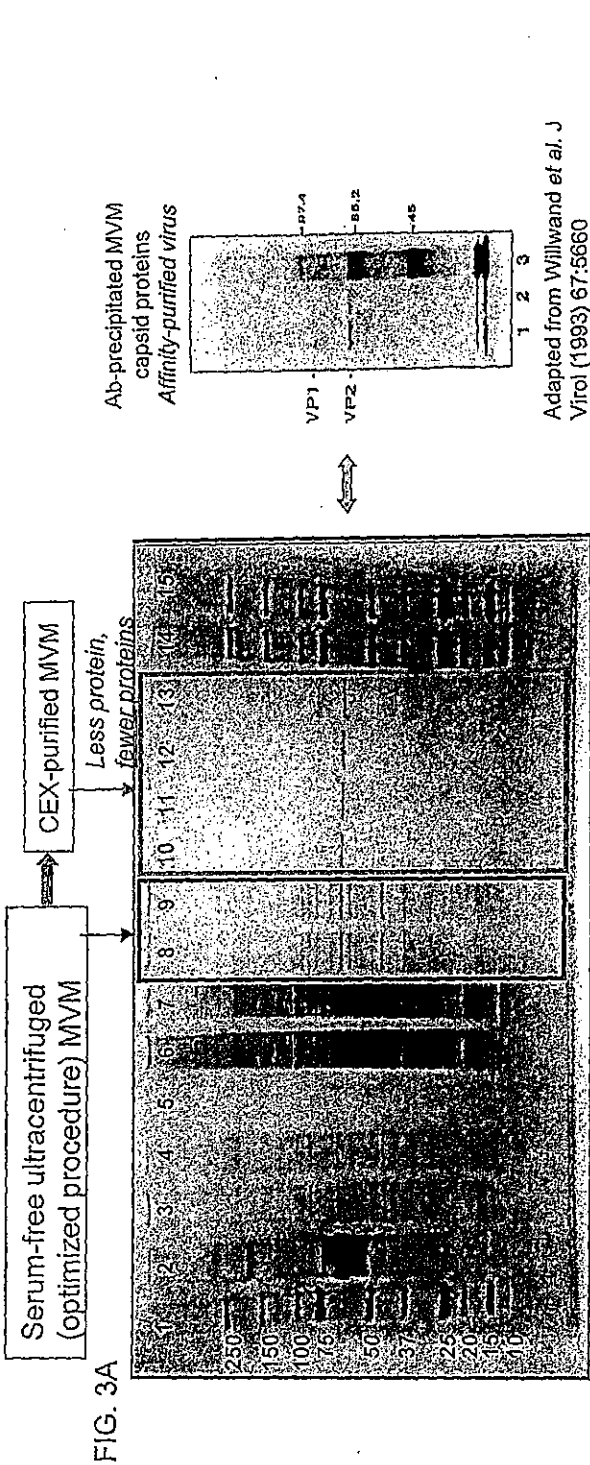


FIG. 2



Adapted from Willwand *et al.* J Virol (1993) 67:5860

FIG. 3B

SDS-PAGE, silver stain (highly sensitive)

Lane	2	3	4	5	6	7	8	9	10	11	12	13
Evaluation Run	1	1	1	1	1	1	1	1	1	1	2	2
Desc	Day 3 media change	Lysate pool	Clarified Lysate	Centrifuge filtrate	Diluted Centrifuge retentate	Ultracentrifuge supernatant	Ultracentrifuge pellet	Ultracentrifuge pellet .22um filtered	CEX early fraction	CEX late fraction	CEX early fraction	CEX late fraction
Titer (log TCID50/ml)	6.3	7.5	7.8	4.7	8.8	7.6	9.0	8.9	8.6	8.6	8.8	8.9
Protein (ug/ml)					483.49	450.92	35.54	39.18	3.36	12.58	2.74	12.86
Protein (fg/TCID50)					860	10571	36	52	9	35	4	17
DNA (ug/ml)	1.8	2.7	1.7	lod	21.8	16.1	4.2	5.9	0.7	3.3	0.9	5.1
DNA (fg/TCID50)	1012	85	26		39	377	4	8	2	9	1	7

FIG. 3C

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Protocol Cellhost Format Eval run #	324K T150 x 30	PROC-004 324K T150 x 30 1				PROC-005 324K T150 x 30 2				PROC-006 324K T150 x 30 3				PROC-007 324K T150 x 30 4			
		AVERAGE	STD DEV														
Clar lysate	Titer (log TCID50/ml)	7.71	±0.06		7.70	7.63	7.75	7.75							7.75		
Centrifcon filtrate (discarded)	Titer (log TCID50/ml)	4.52	±0.26		4.44	4.69	4.75	4.75							4.19		
Centrifcon retentate (diluted to 30ml)	Titer (log TCID50/ml)	8.85	±0.24		8.75	8.81	9.19	9.19							8.63		
	Protein (ug/ml)	631.31	±208.04		483.49		779.12	779.12									
	DNA (ug/ml)	30.18	±11.85		21.80		38.56	38.56									
U/C Sup (discarded)	Titer (log TCID50/ml)	7.27	±0.33		7.63	7.44	7.13	7.13							6.88		
	Protein (ug/ml)	561.68	±156.64		450.92		672.44	672.44									
	DNA (ug/ml)	20.95	±6.85		16.10		25.79	25.79									
	Virus Loss	3%			8%	4%	1%	1%							2%		
U/C Pellet	Titer (log TCID50/ml)	8.75	±0.20		9.00	8.81	8.63	8.63							8.56		
	Protein (ug/ml)	43.11	±10.70		35.54		50.67	50.67									
	DNA (ug/ml)	6.41	±3.12		4.20		8.61	8.61									
CEX early fract	Titer (log TCID50/ml)	8.66	±0.12		8.56	8.81	8.69	8.69							8.56		
	Protein (ug/ml)	8.27	±6.03		3.36	2.74	13.66	13.66							13.30		
	Protein/virus (fg/TCID50)	19.50	±15.29		9.25	4.24	27.89	27.89							36.63		
	DNA (ug/ml)	0.94	±0.43		0.70	0.90	1.55	1.55							0.59		
	DNA (fg/TCID50)	2.03	±0.79		1.93	1.39	3.16	3.16							1.62		
CEX late fract	Titer (log TCID50/ml)	8.82	±0.07		8.73	8.88	8.88	8.88							8.81		
	Protein (ug/ml)	21.23	±10.59		12.58	12.86	24.90	24.90							34.58		
	Protein/virus (fg/TCID50)	31.74	±15.94		23.61	16.95	32.82	32.82							53.56		
	DNA (ug/ml)	6.15	±2.70		3.30	5.10	6.52	6.52							9.68		
	DNA (fg/TCID50)	9.13	±4.04		6.19	6.72	8.60	8.60							14.99		
Total Virus Harvest	log TCID50	10.46	±0.06		10.45	10.38	10.50	10.50							10.50		
Total Virus Yield	log TCID50	10.22	±0.09		10.12	10.32	10.26	10.26							10.16		
Purification Loss	log TCID50	0.24	±0.13		0.33	0.06	0.24	0.24							0.34		

FIG. 4

Lane	2	3	4	5	6	7	8	9	10	11
Desc	Media change	Lysate pool	Clarified lysate	Clarified lysate	Centrifuge filtrate	Centrifuge retentate (diluted)	Ultrafiltrate	Resuspended pellet	Scrubbed fraction	Scrubbed fraction
Titer (log ₁₀ CCID ₅₀ /ml)	6.7	9.8	9.9	9.9	6.7	10.3	9.2	10.6	10.6	10.3
Protein (ug/ml)	0	0	0	0	0	9856	9366	135	94	105
Protein (fg/TCID ₅₀)	0	0	0	0	0	483	6047	4	2	5

FIG. 5A

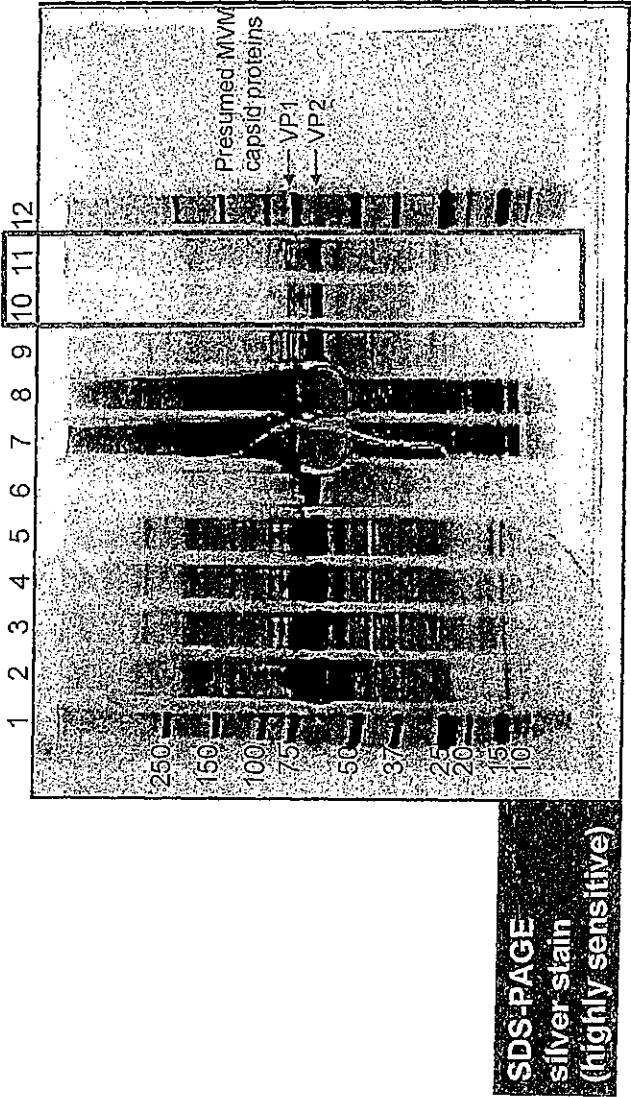


FIG. 5B

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		Protocol Cellhost Format Eval run #	PROC-010 A9 T150 x 30 5
Clar lysate	Titer (log TCID ₅₀ /ml)		9.88
Centricon filtrate (discarded)	Titer (log TCID ₅₀ /ml)		6.69
Centricon retentate (diluted to 30ml)	Titer (log TCID ₅₀ /ml)		10.31
	Protein (ug/ml)		9856.00
U/C Sup (discarded)	Titer (log TCID ₅₀ /ml)		9.19
	Protein (ug/ml)		9366.00
	Virus Loss		8%
U/C Pellet	Titer (log TCID ₅₀ /ml)		10.56
	Protein (ug/ml)		134.56
CEX early fract	Titer (log TCID ₅₀ /ml)		10.63
	Protein (ug/ml)		93.63
	Protein/virus (fg/TCID ₅₀)		2.19
CEX late fract	Titer (log TCID ₅₀ /ml)		10.31
	Protein (ug/ml)		104.90
	Protein/virus (fg/TCID ₅₀)		5.14
Total Virus Harvest	log TCID ₅₀		12.63
Total Virus Yield	log TCID ₅₀		11.98
Purification Loss	log TCID ₅₀		0.65

FIG. 6

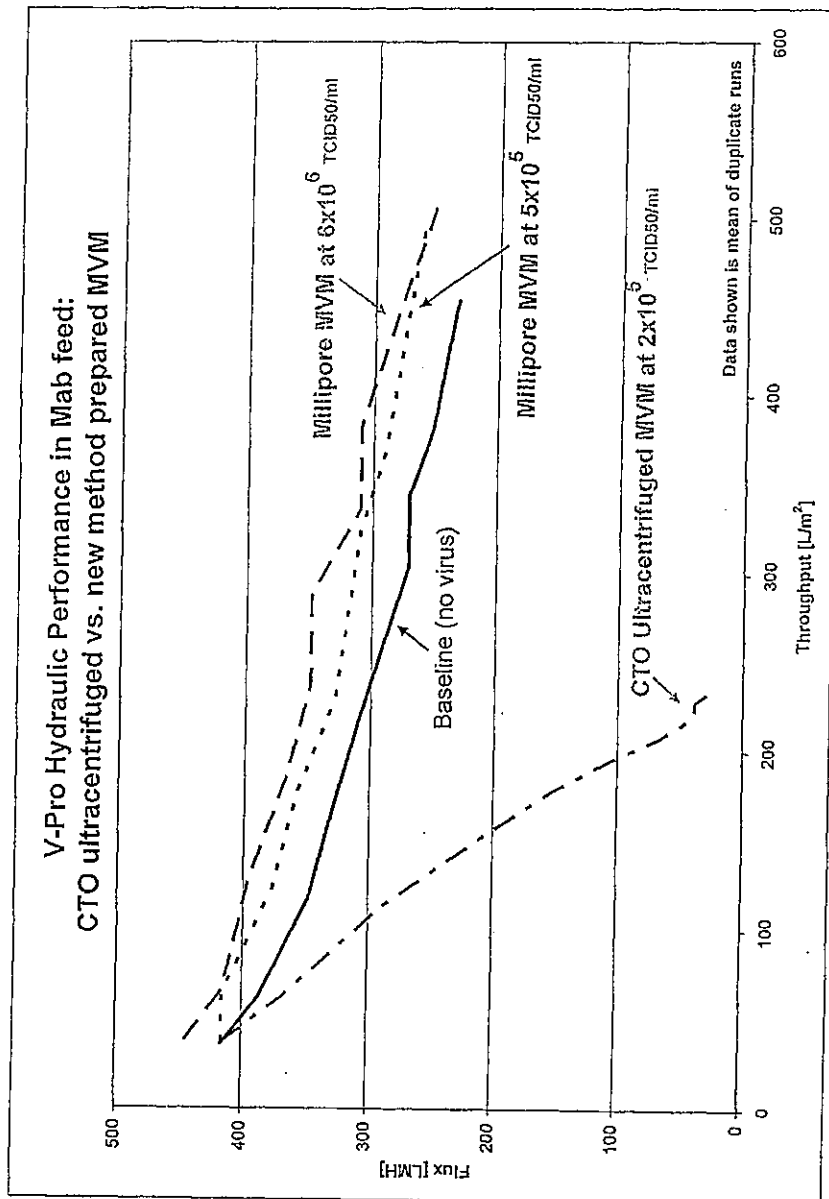


FIG. 7

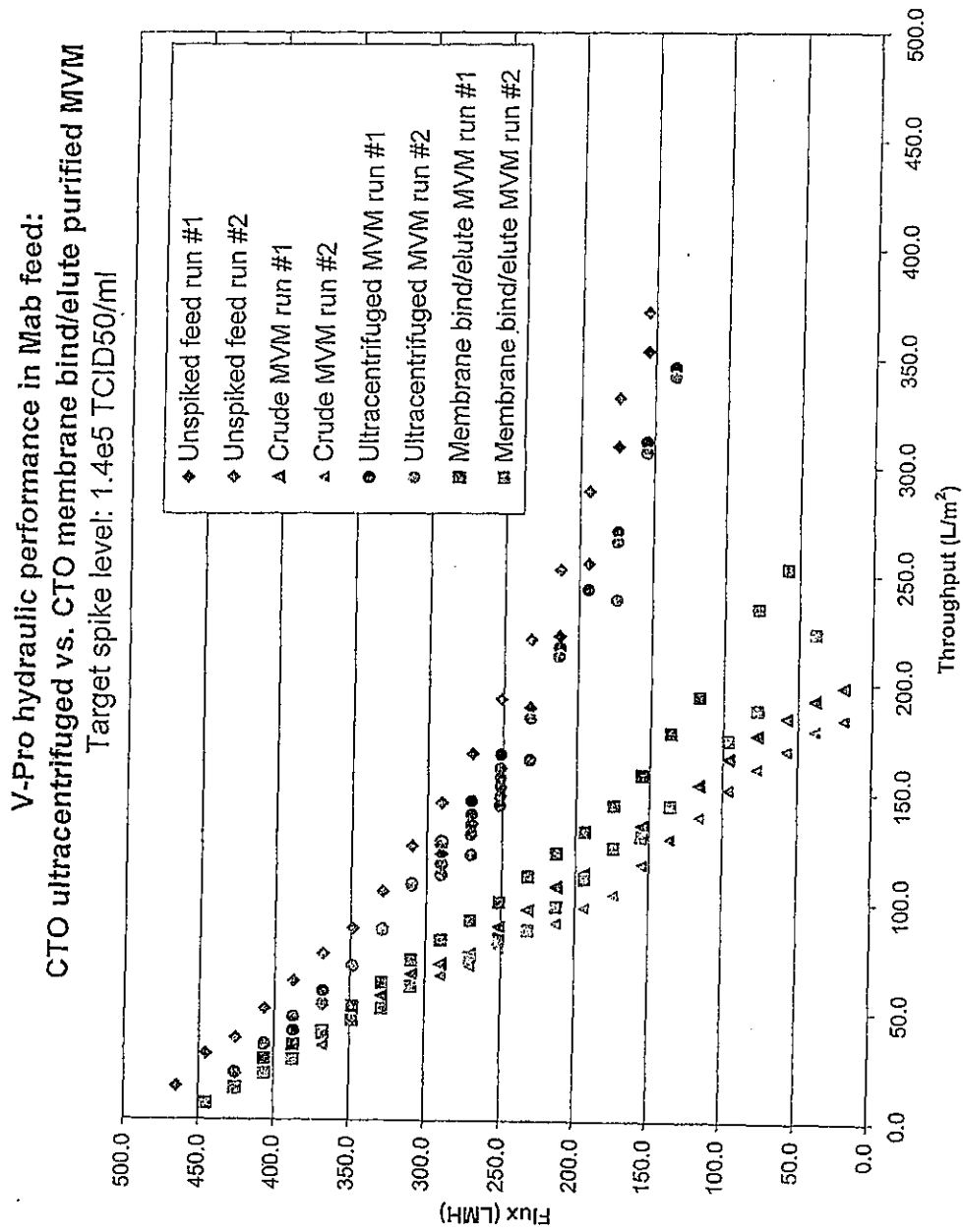


FIG. 8

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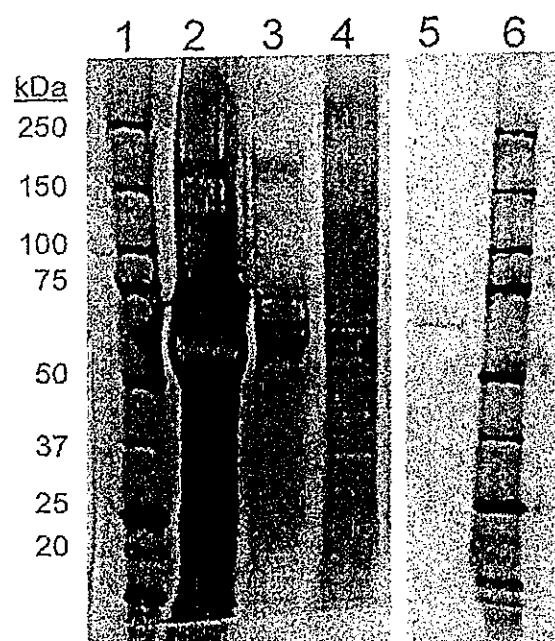


FIG. 9