

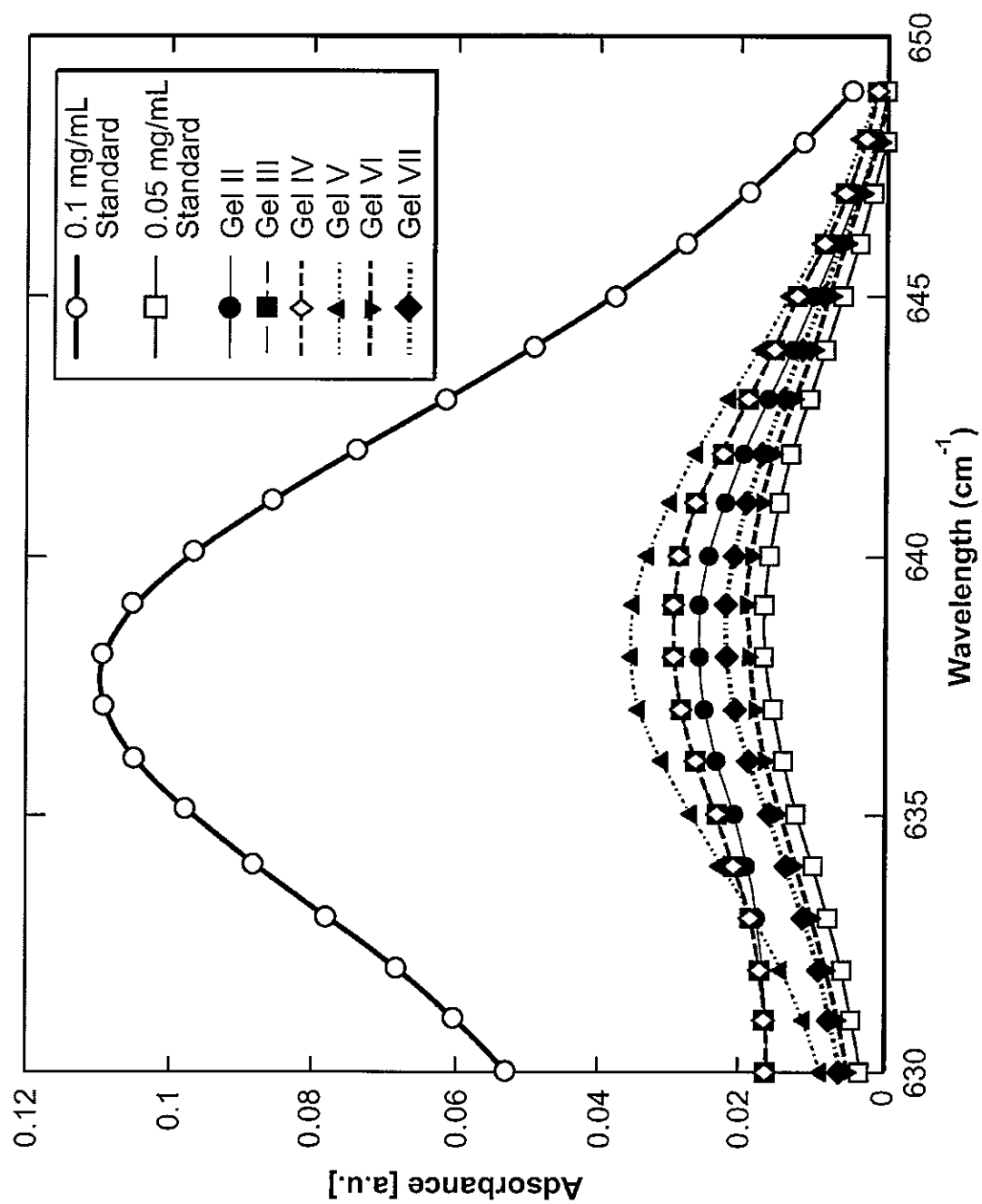


FIG. 1

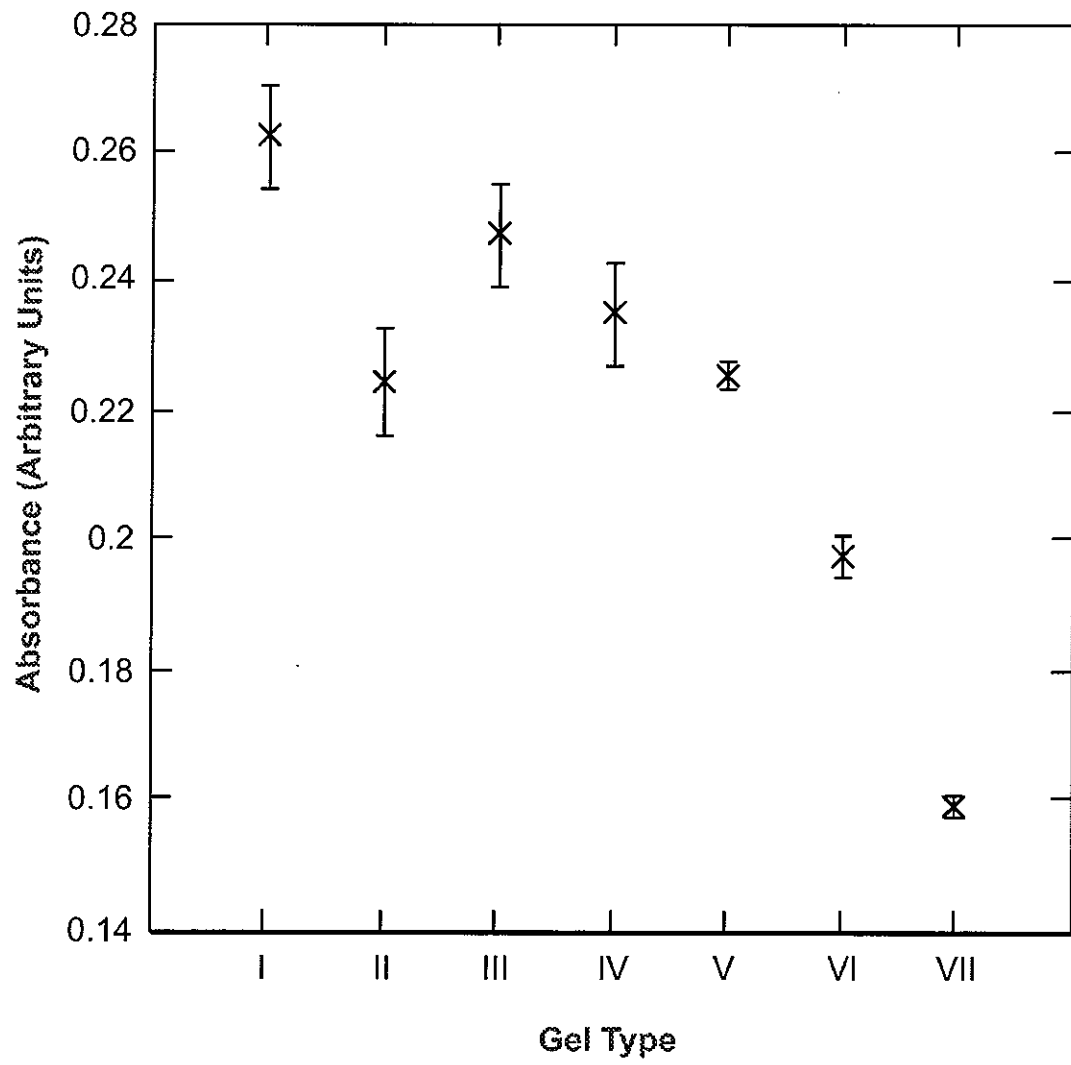


FIG. 2

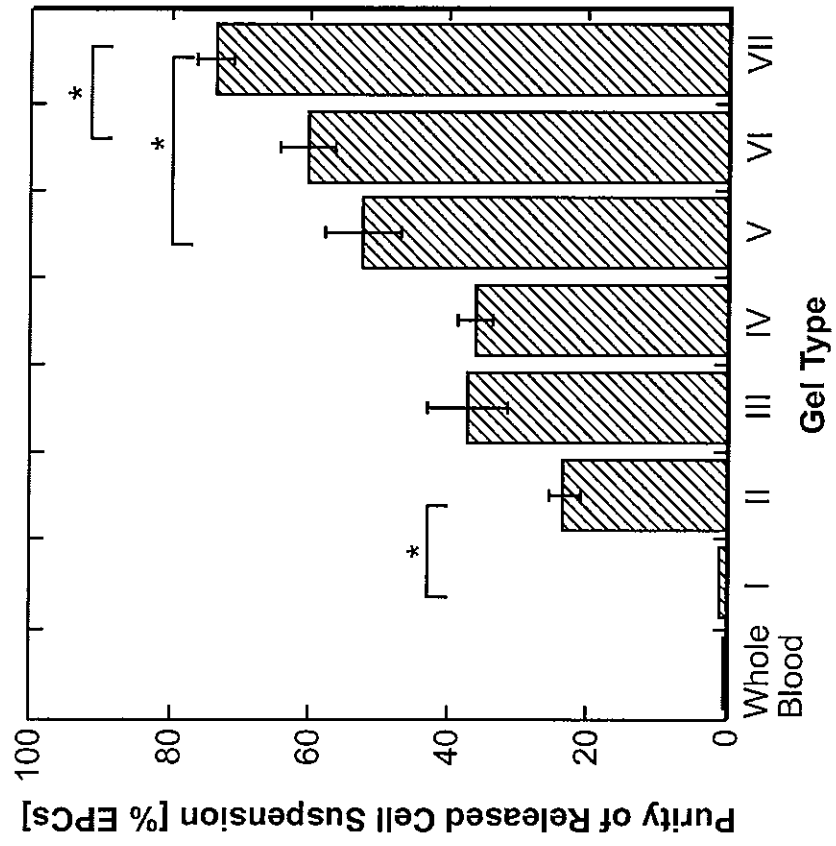


FIG. 3b

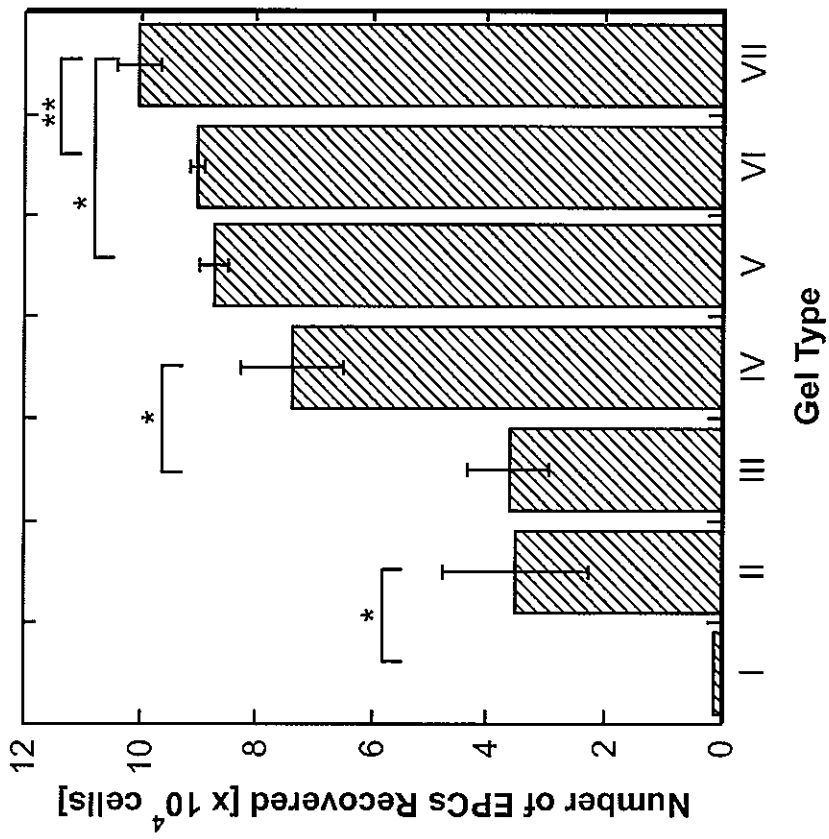
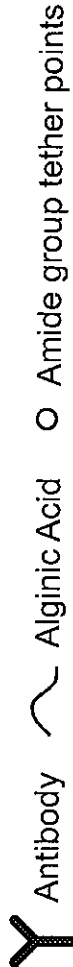
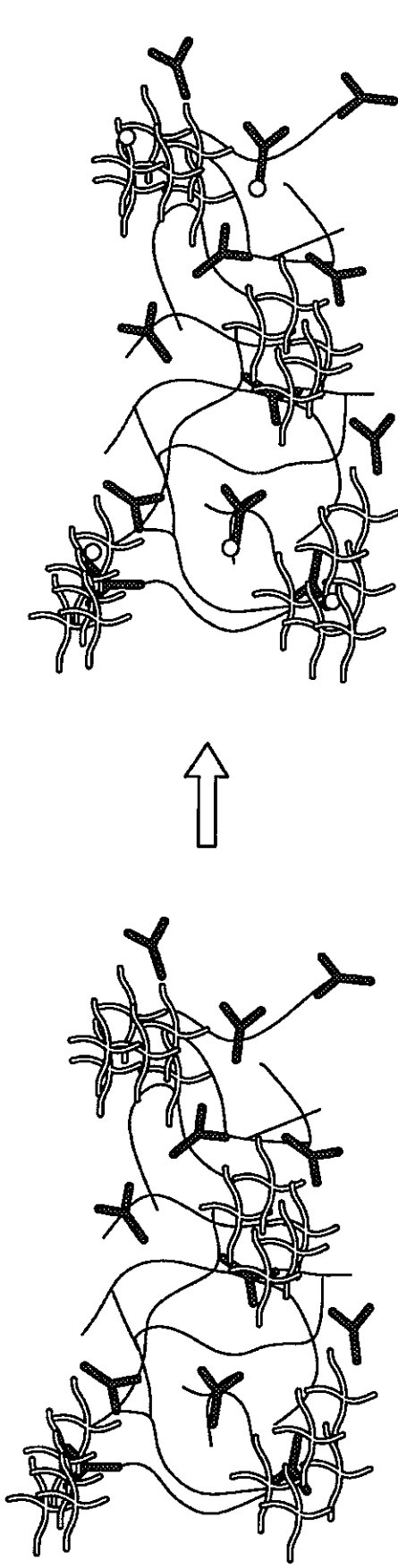


FIG. 3a

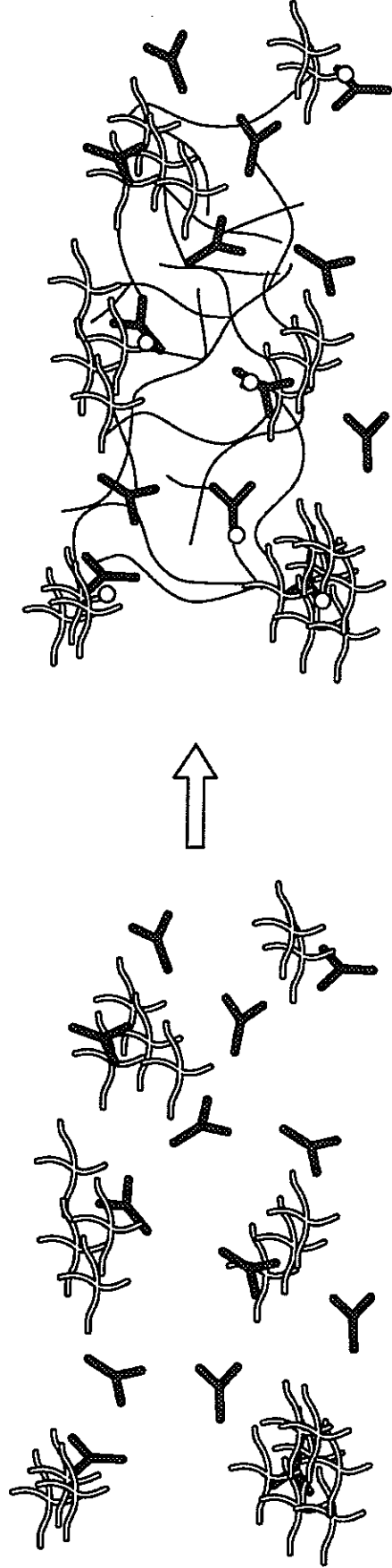
FIG. 4a


 PEG Antibody Alginic Acid Amide group tether points

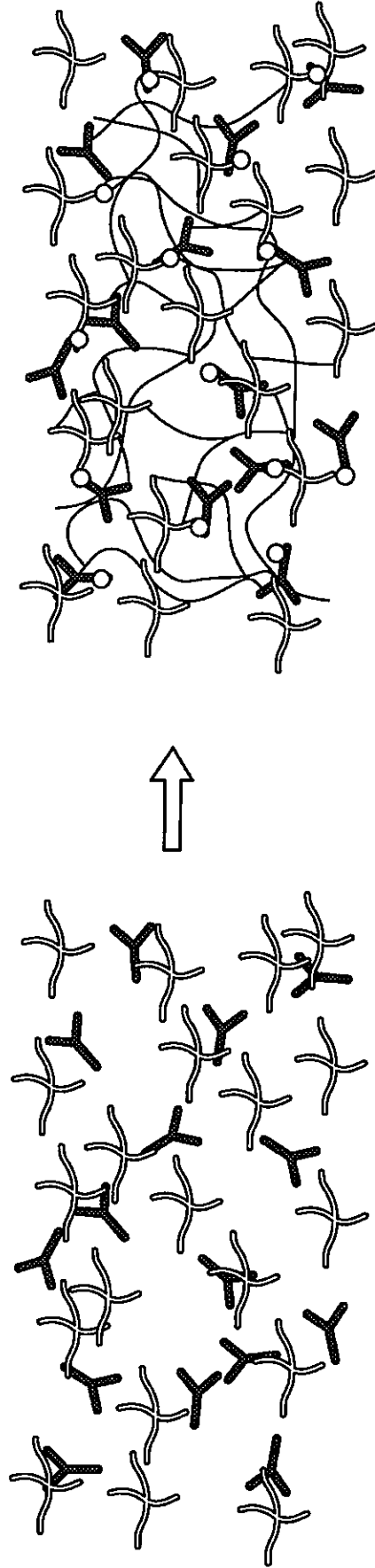


Gel types II-IV; all reagents combined together

FIG. 4b



Gel type V: two step mixing protocol with PEG, antibody, EDC, and sulfo NHS in first step



Gel types VI-VII: pre-mixing of PEG and antibody

FIG. 4c

FIG. 5a

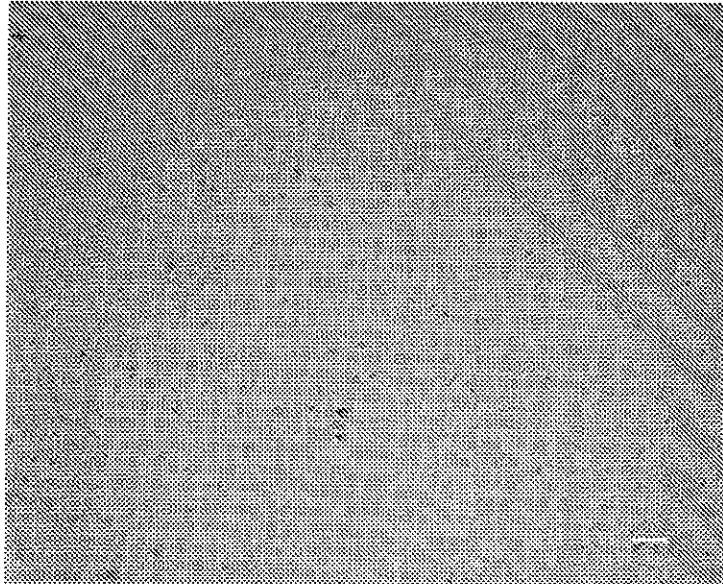


FIG. 5b

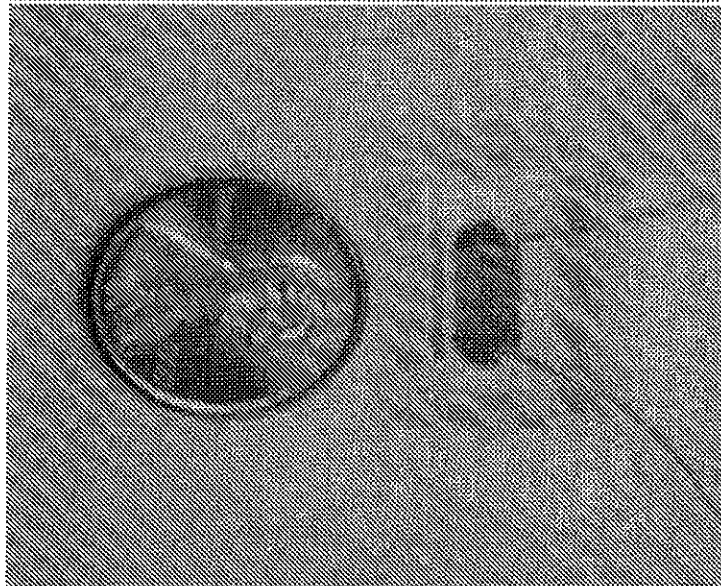
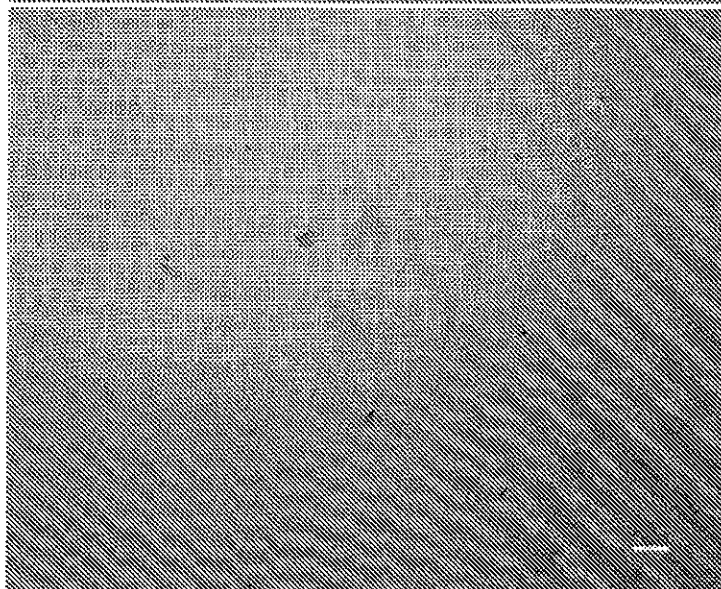


FIG. 5c



Sample	Injection Rate	Percent BSA (w/v)	pH	Alginate Formulation Step I (Mix/Incubation)	Alginate Formulation Step II (Mix/Incubation)
I-Injected	-	-	-	-	-
II	3 μ L/min	0.1%	6.0	29/60	29/60
III	3 μ L/min	0.1%	6.0	29/0	60/0
IV	5 μ L/min	0.1%	6.0	29/0	60/0
V	5 μ L/min	1.0%	6.0	29/0	60/0
VI	3 μ L/min	0.1%	4.7	29/0	60/0

FIG. 6a

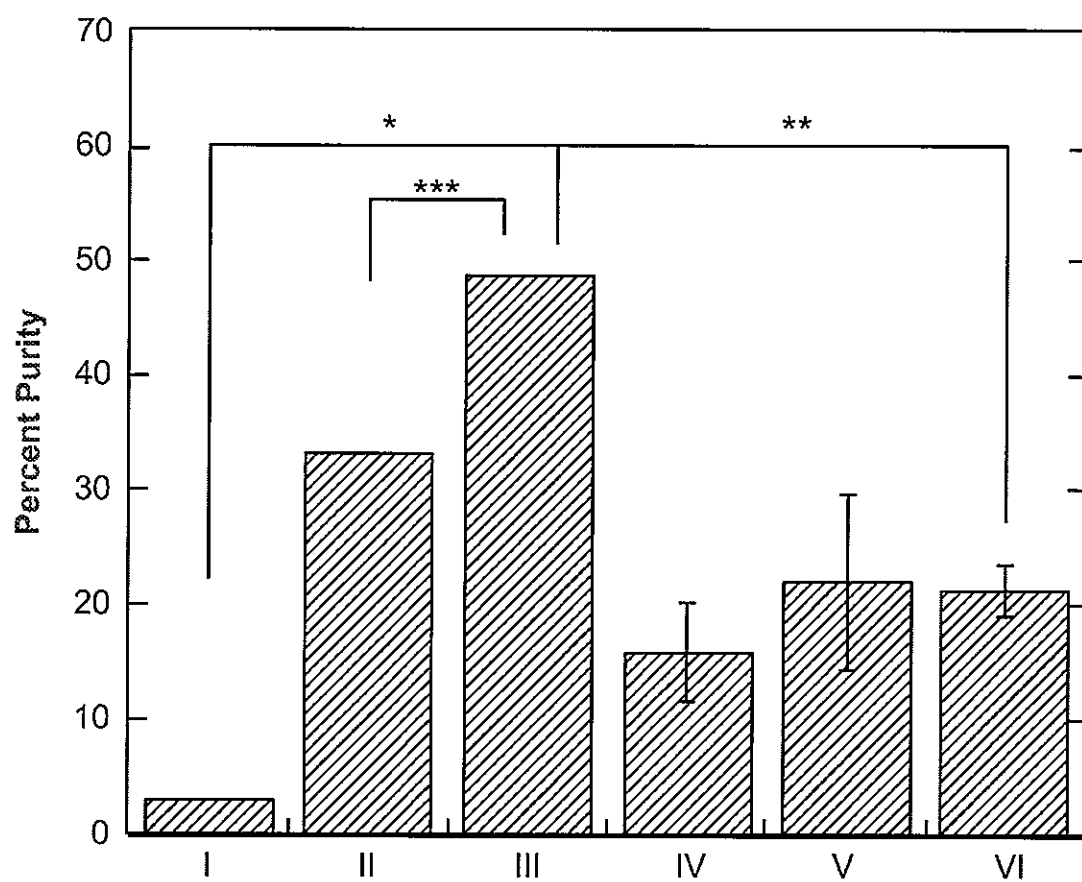


FIG. 6b

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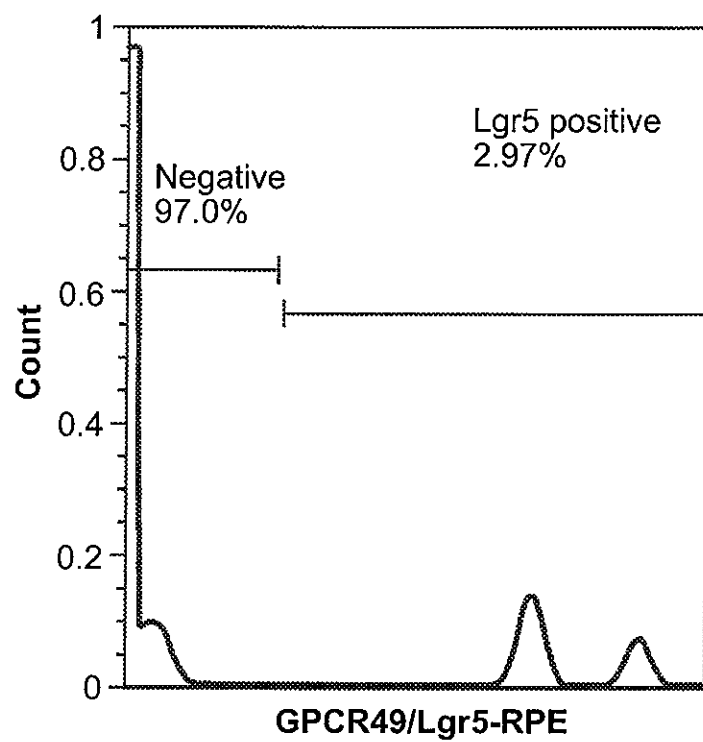


FIG. 6c

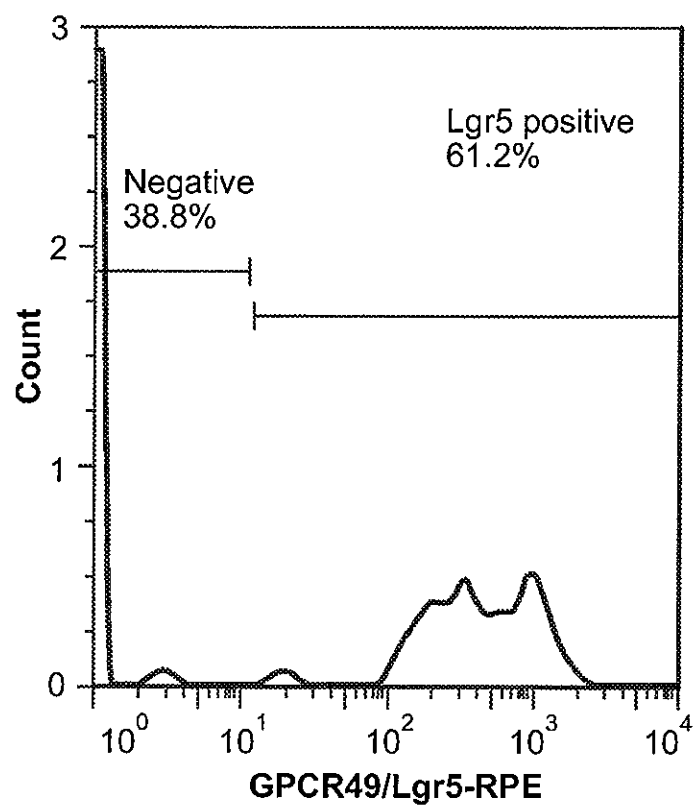


FIG. 6d

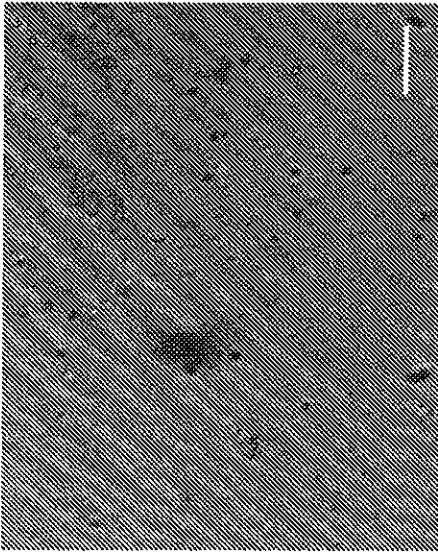


FIG. 7a

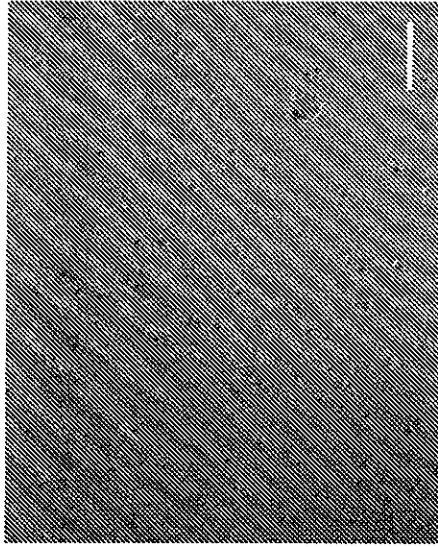


FIG. 7b

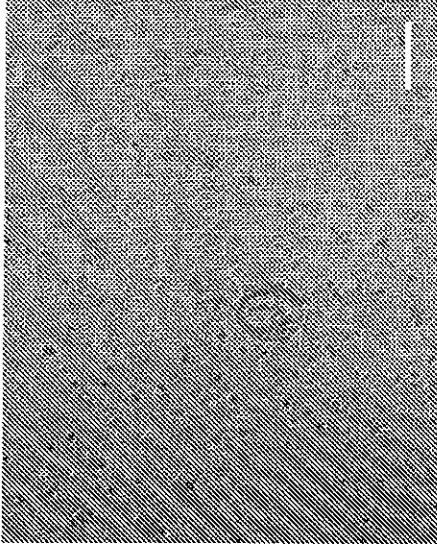


FIG. 7c

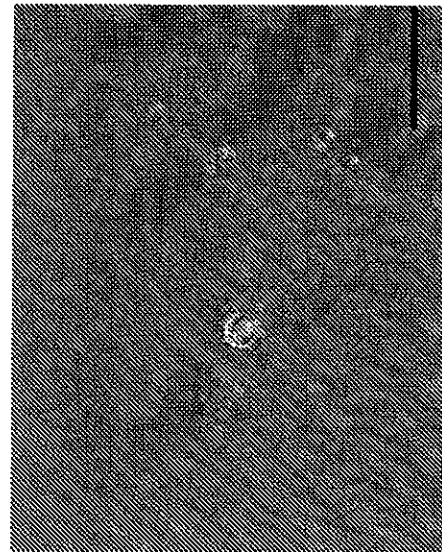


FIG. 7d

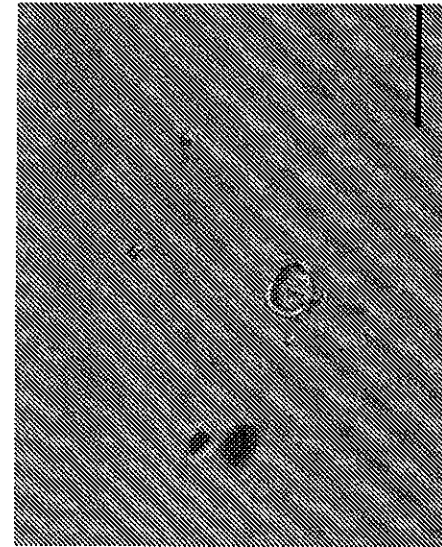


FIG. 7e

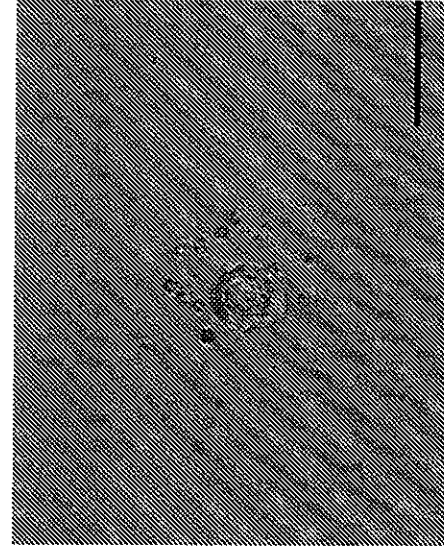


FIG. 7f

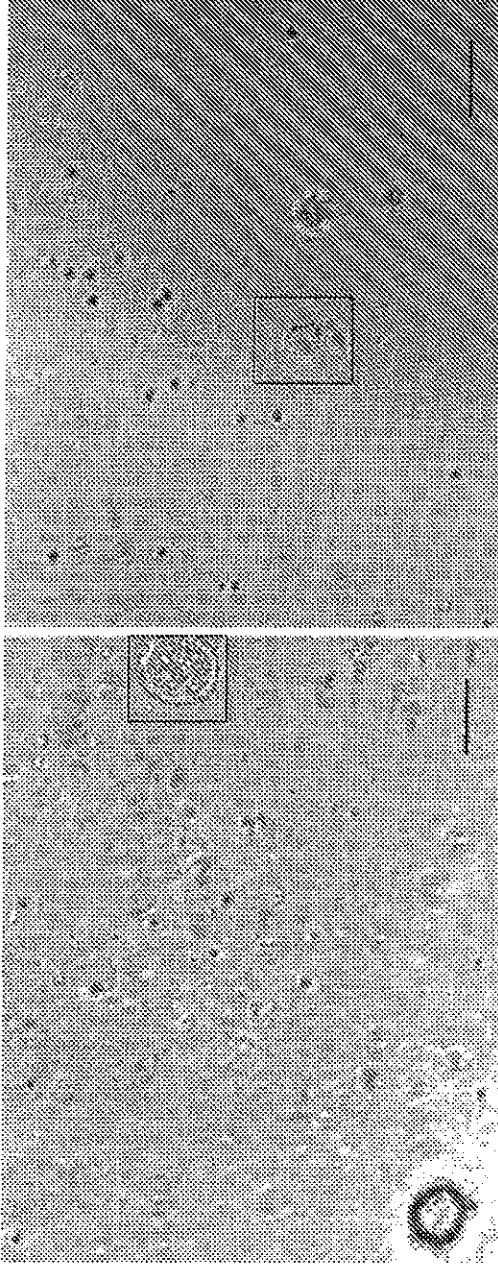


FIG. 8a

FIG. 8b

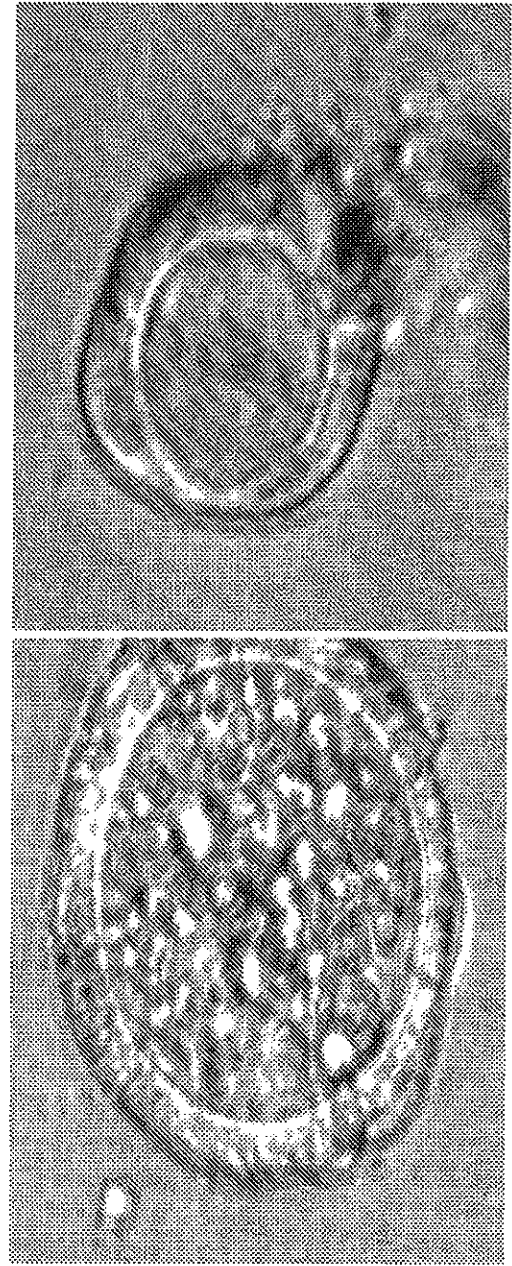


FIG. 8c

FIG. 8d

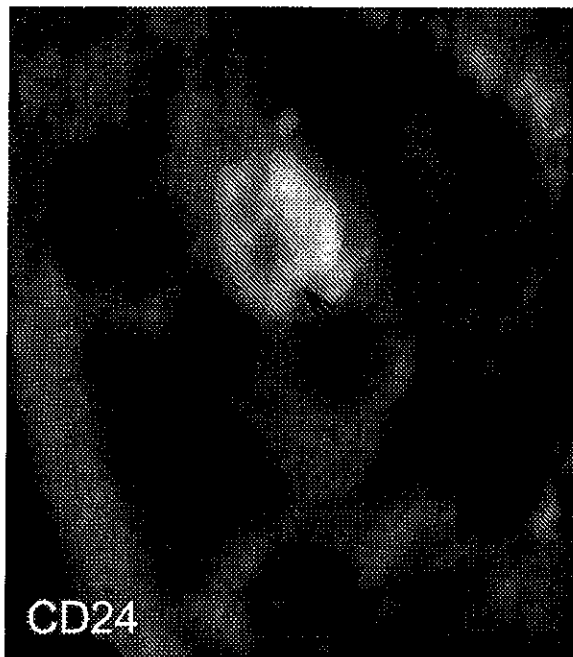


FIG. 9a

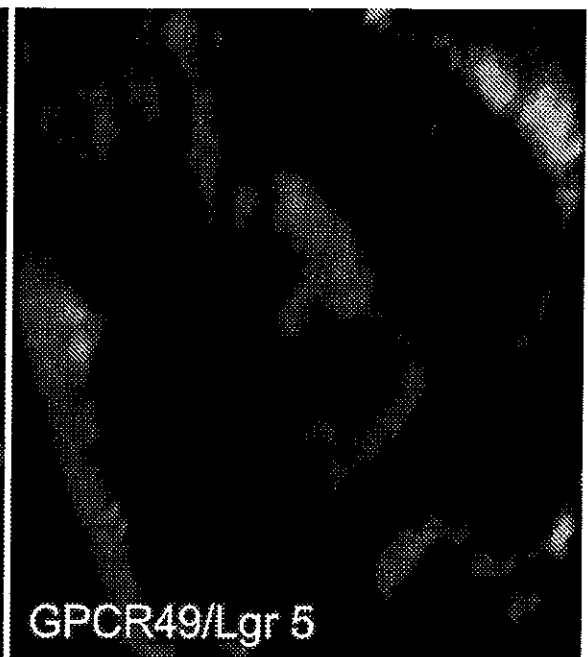


FIG. 9b



FIG. 9c

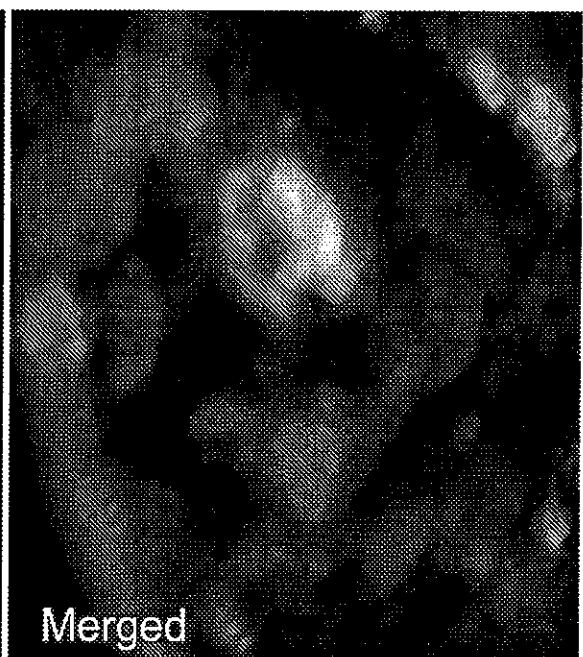


FIG. 9d



FIG. 10a

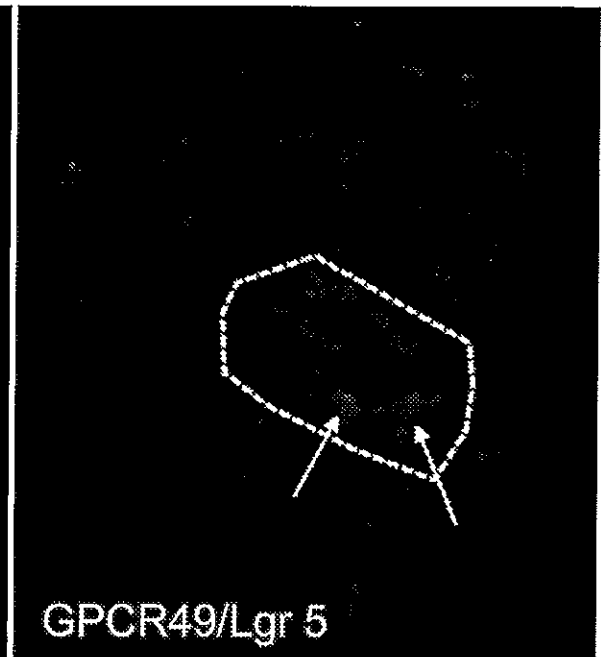


FIG. 10b

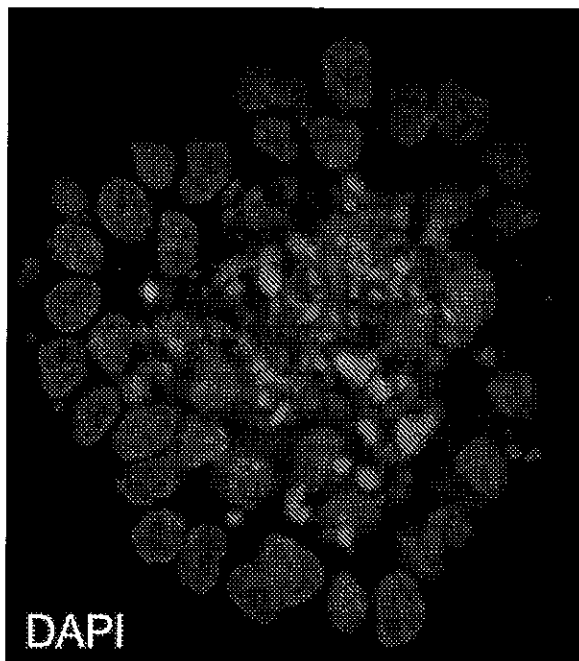


FIG. 10c

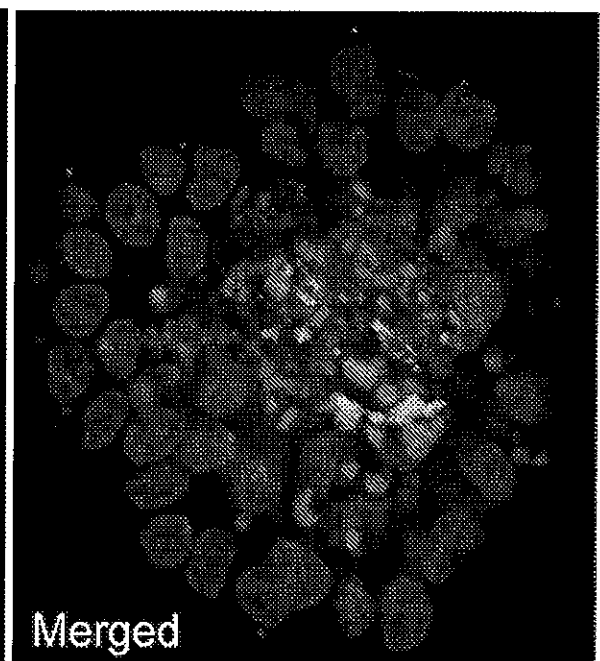


FIG. 10d

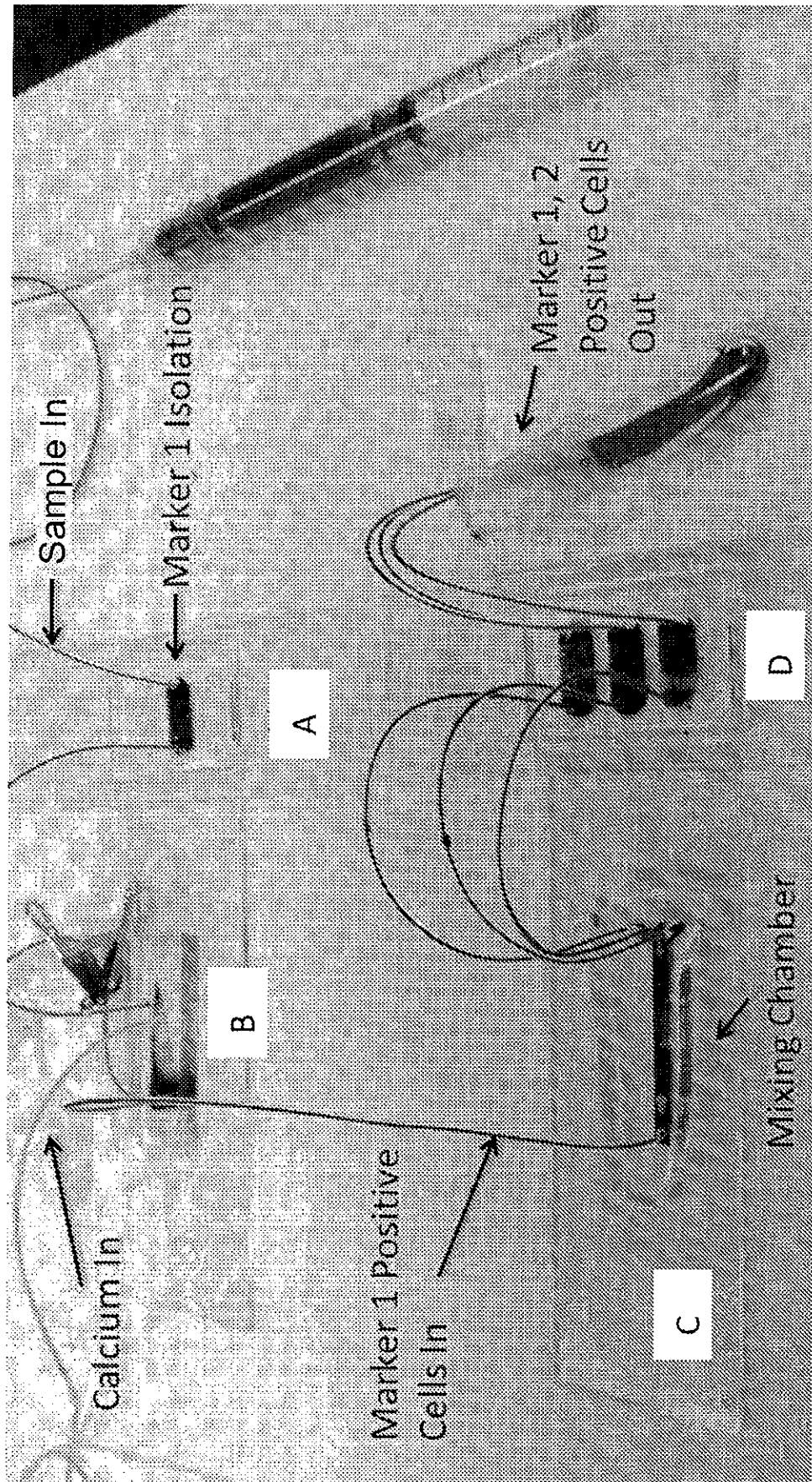


FIG. 11

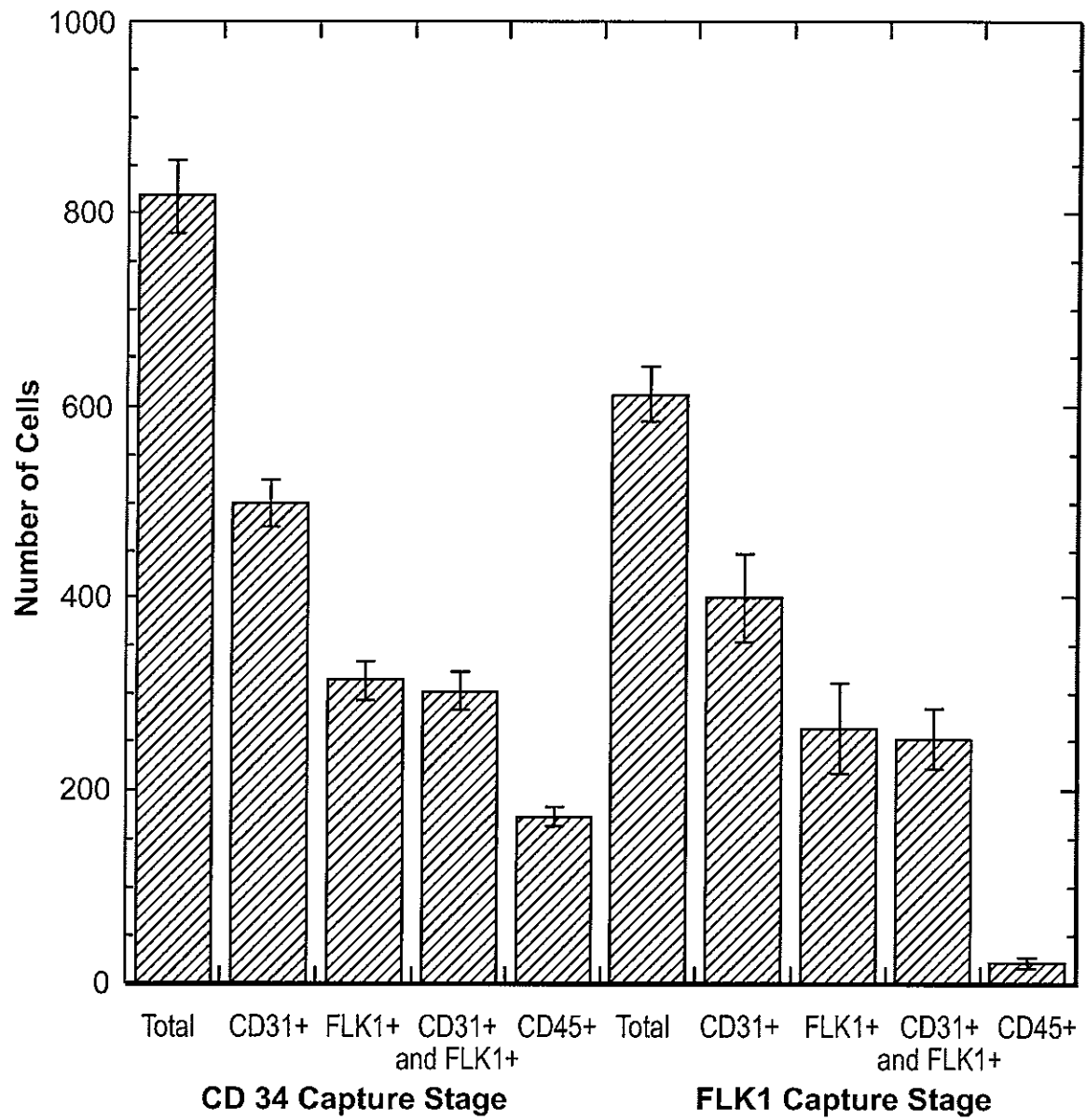


FIG. 12