



EXAMPLES FOR FC BINDING DOMAIN WITH CYS IN HELIX 3

SEQ ID:	CS VARIANT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
18	CS1446C	A	A	K	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	P		
20	CS1446CTIS	A	A	K	H	D	K	D	Q	Q	S	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	P		
57	CS1746C	D	A	K	F	D	E	A	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	P		
53	CS2046C	D	A	K	F	D	E	A	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	P		
56	CS2046CTIS	D	A	K	F	D	E	A	Q	Q	S	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	P		
41	CS47H346C	A	A	K	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	Q	K	L	N	D	S	Q	A	P	K		
45	CS47H446C	A	A	K	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	Q	K	L	N	D	S	Q	A	P	K		
48	CS74H146C	A	A	K	F	D	E	A	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	P		
51	CS74H246C	A	A	K	F	D	E	A	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	P		
22	CS746C	A	A	K	F	D	E	A	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	Q	K	L	N	D	S	Q	A	P	K		
24	CS746CTIS	A	A	K	F	D	E	A	Q	Q	S	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	Q	K	L	N	D	S	Q	A	P	K		
26	CS7643C	A	A	Q	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	Q	K	L	N	D	A	Q	A	P	K		
27	CS7647C	A	A	Q	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	Q	K	L	N	D	A	Q	A	P	K		
90	CS7650C	A	A	Q	H	D	K	D	D	D	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	D	S	L	R	D	D	P	S	V	S	L	E	I	L	A	C	A	K	L	N	D	A	D	A	P	K			
91	CS7651C	A	A	Q	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	Q	K	L	N	D	A	Q	A	P	K		
92	CS7653C	A	A	Q	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	Q	K	L	N	C	A	Q	A	P	K		
27	CS7646C	A	A	Q	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	K		
33	CS7646CDEIN	A	A	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	K			
34	CS7646CDEINC	A	A	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	K			
29	CS7646CTIS	A	A	Q	H	D	K	D	Q	Q	S	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	K		
37	CS7446C	A	A	Q	H	D	K	F	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	K		
36	CS7443C	A	A	Q	H	D	K	F	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	K		
38	CS7447C	A	A	Q	H	D	K	F	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	A	K	K	L	N	D	A	Q	A	P	K		
93	CS7450C	A	A	Q	H	D	K	F	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	G	C	A	K	L	N	D	A	Q	A	P	K			
94	CS7451C	A	A	Q	H	D	K	F	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	G	F	A	K	L	N	D	A	Q	A	P	K			
95	CS7453C	A	A	Q	H	D	K	F	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	G	F	A	K	L	N	C	A	Q	A	P	K			
63	CS7846C	D	D	K	H	D	E	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	E	Q	R	N	A	F	Q	S	L	R	D	D	P	S	Q	S	L	E	I	L	C	E	F	A	K	L	N	E	S	Q	A	P	K		
58	CS4746C	D	D	K	H	D	E	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	E	Q	R	N	A	F	Q	S	L	R	D	D	P	S	Q	S	L	E	I	L	C	E	F	A	K	L	N	E	S	Q	A	P	K		
61	CS4746CTIS	D	D	K	H	D	E	D	Q	Q	S	A	F	V	E	I	L	H	L	P	N	L	T	E	E	Q	R	N	A	F	Q	S	L	R	D	D	P	S	Q	S	L	E	I	L	C	E	F	A	K	L	N	E	S	Q	A	P	K		
62	CS4146C	A	A	K	H	D	E	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	E	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	F	A	K	L	N	D	S	Q	A	P	K		
66	CS3146C	A	A	K	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	F	A	K	L	N	D	A	Q	A	P	K		
67	CS4346C	A	A	K	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	E	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	F	A	K	L	N	D	S	Q	A	P	K		
68	CS4446C	A	A	K	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	E	Q	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	F	A	K	L	N	D	A	Q	A	P	K		
69	CS4546C	A	A	K	H	D	K	D	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	D	A	R	N	A	F	Q	S	L	R	D	D	P	S	V	S	L	E	I	L	C	E	F	A	K	L	N	D	A	Q	A	P	K		
72	CS3546C	D	A	K	F	D	K	E	Q	Q	A	A	F	V	E	I	L	H	L	P	N	L	T	E	E	Q	R	N	A	F	Q	S	L	R	D	D	P	S	Q	S	L	E	I	L	C	E	F	A	K	L	N	D	A	Q	A	P	P		

FIG. 1B

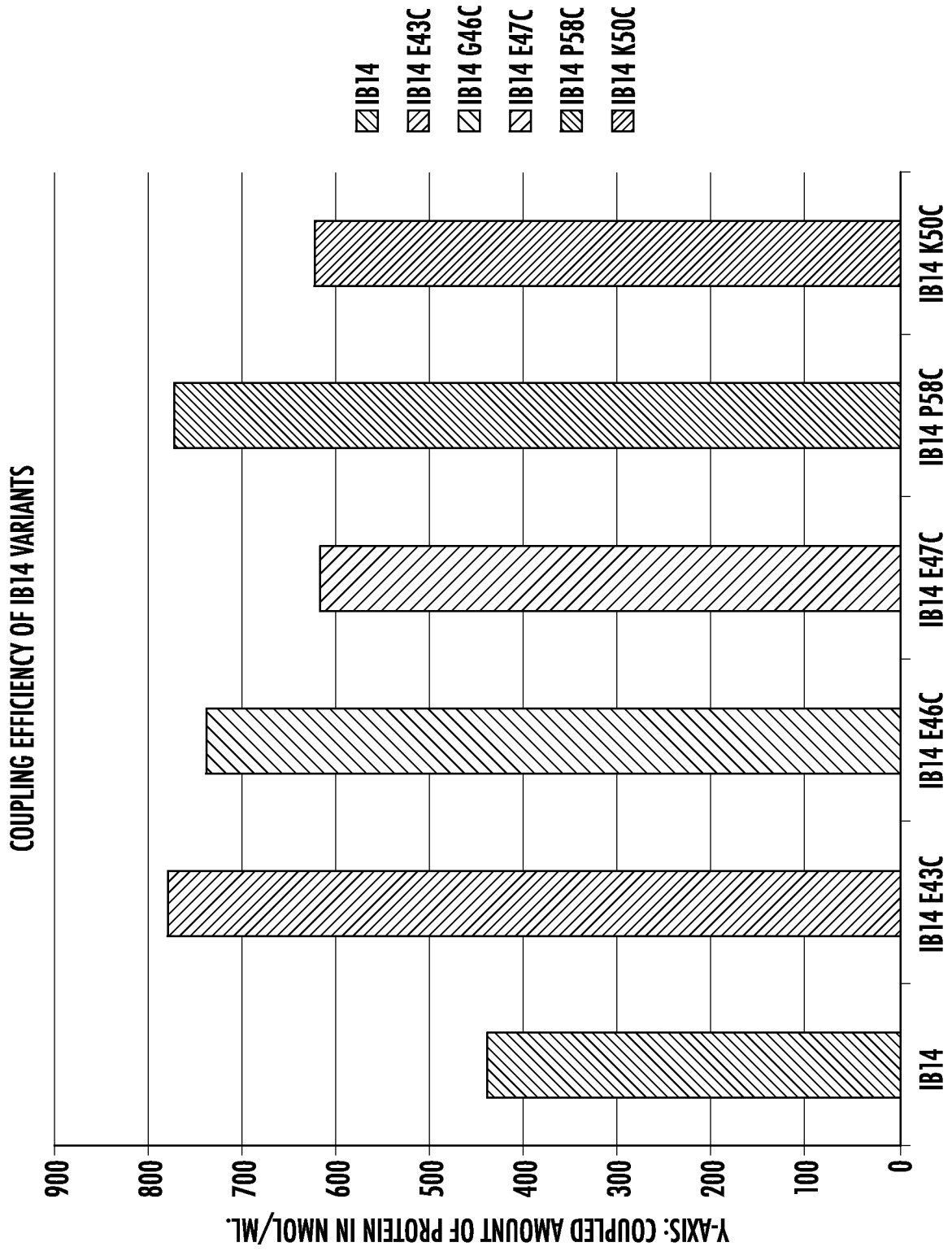


FIG. 2A

COUPLING OF CS14 43C AND CS14 46C TO EPOXY-ACTIVATED SEPHAROSE 6B MATRIX

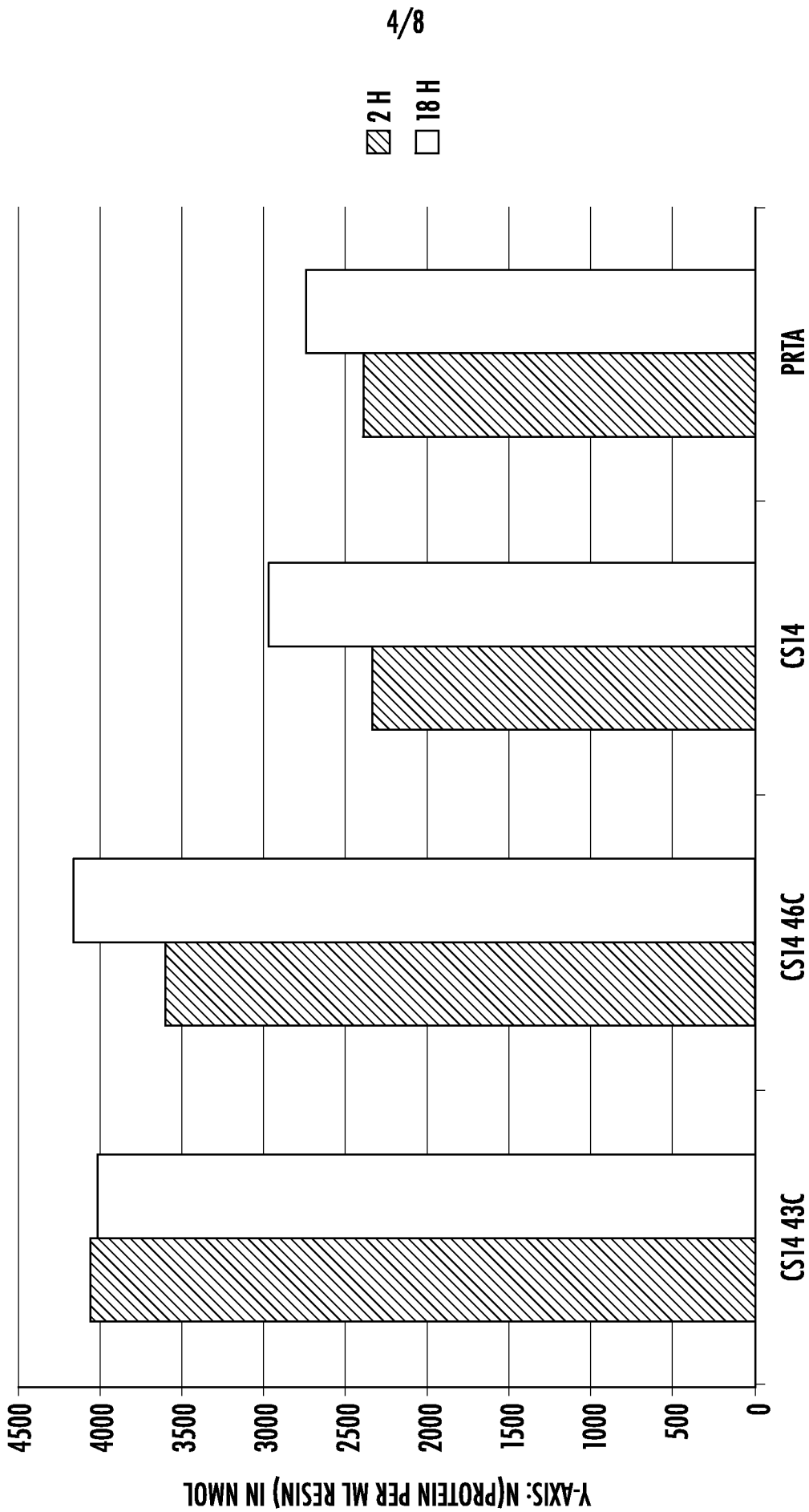


FIG. 2B

CAUSTIC STABILITY OF IB14 VARIANTS

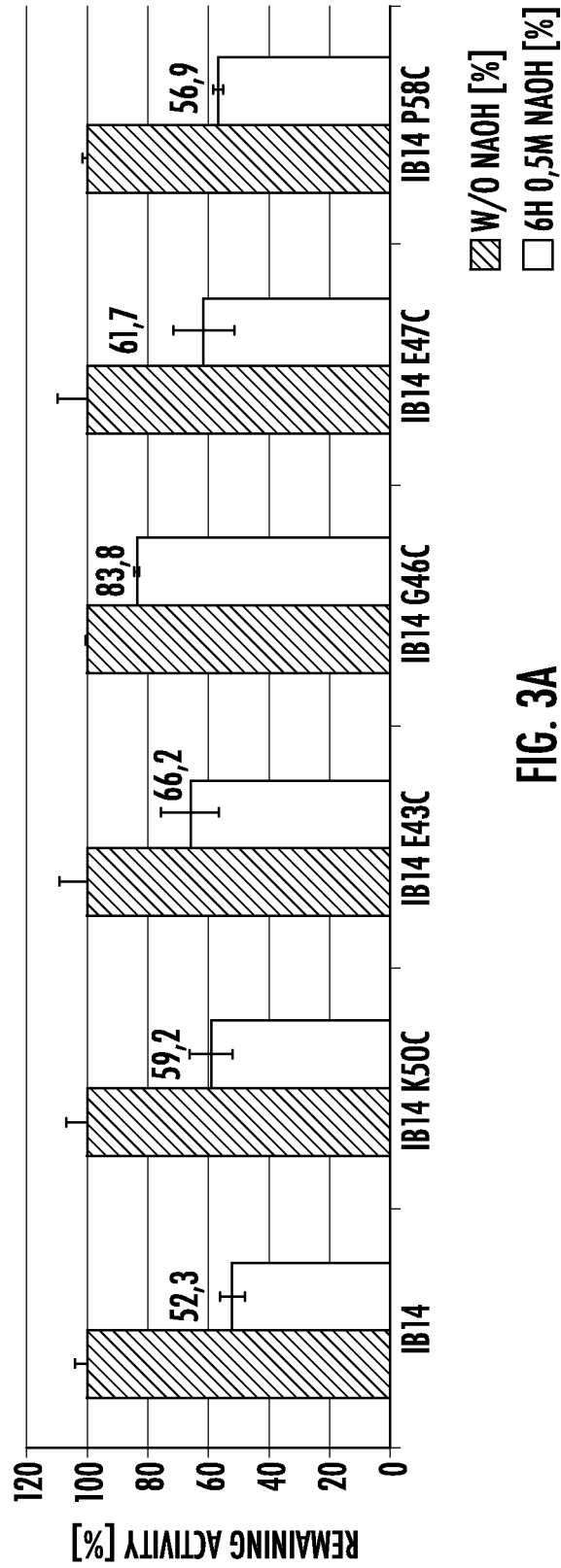


FIG. 3A

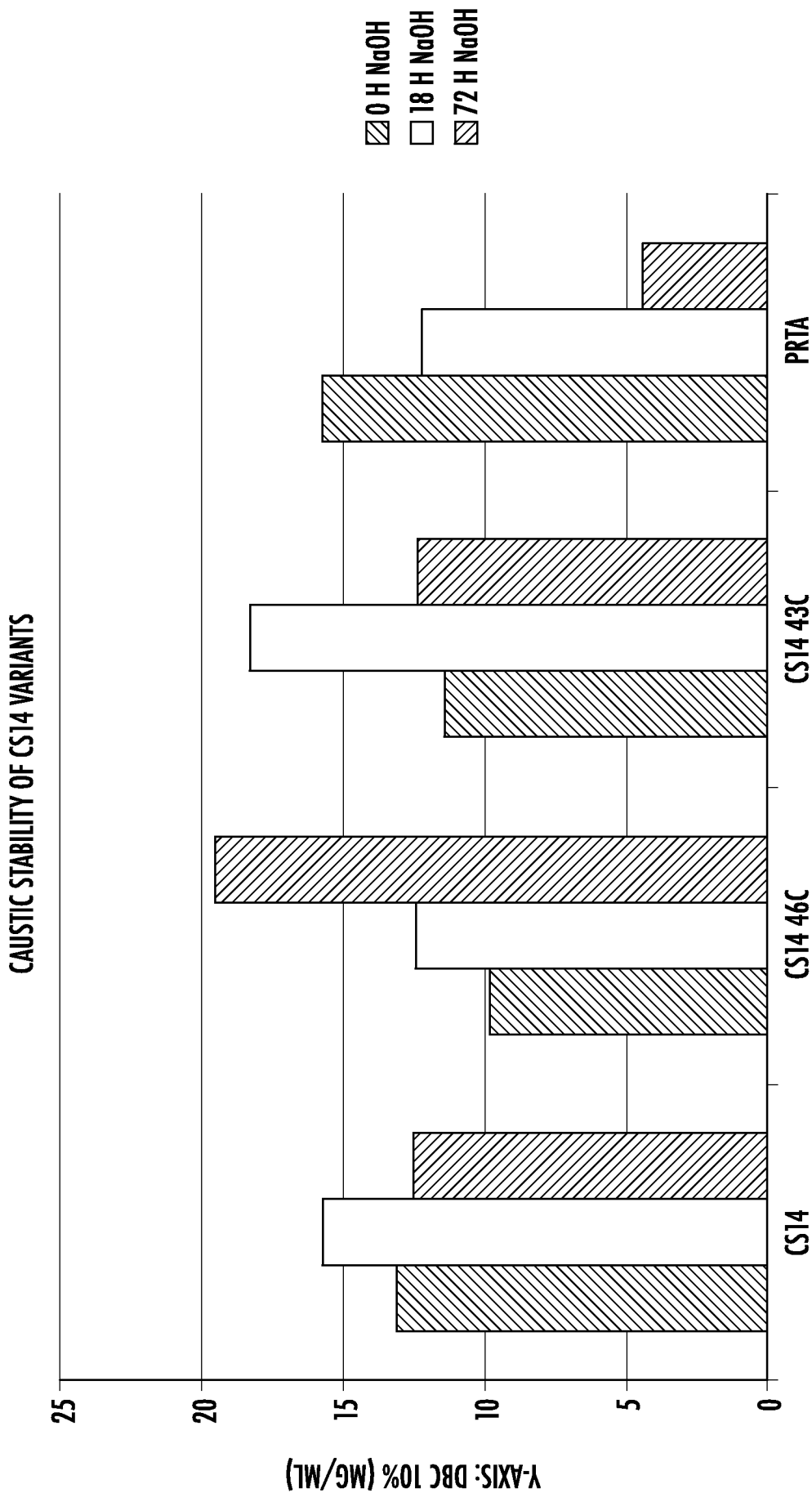


FIG. 3B

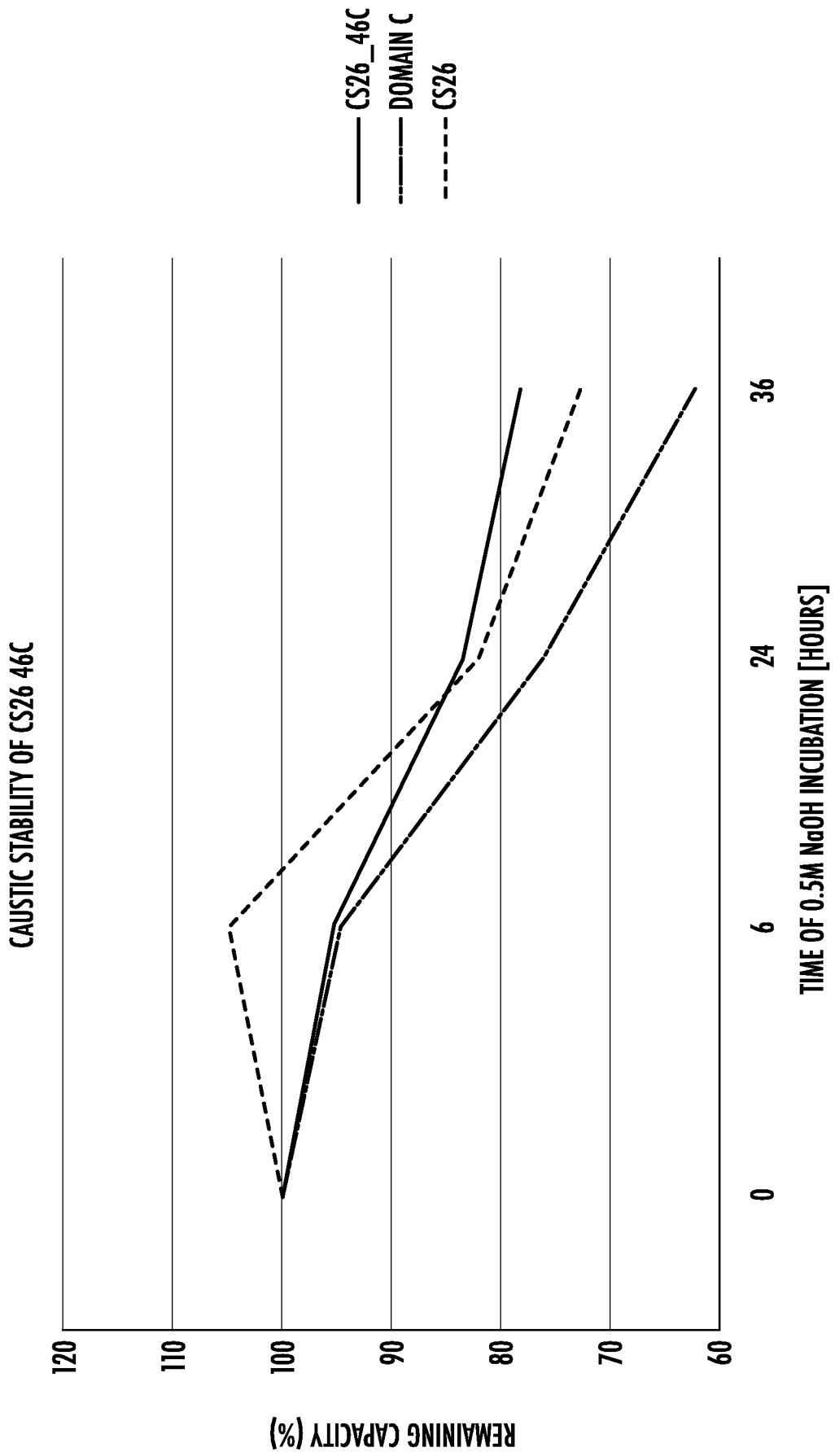
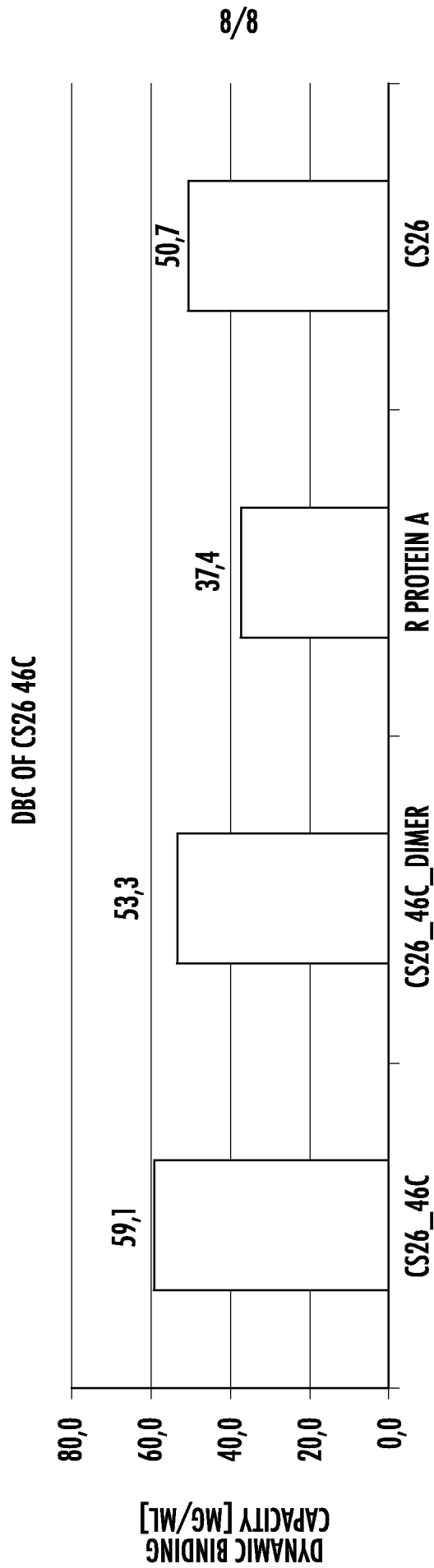


FIG. 4



**FIG. 5**