

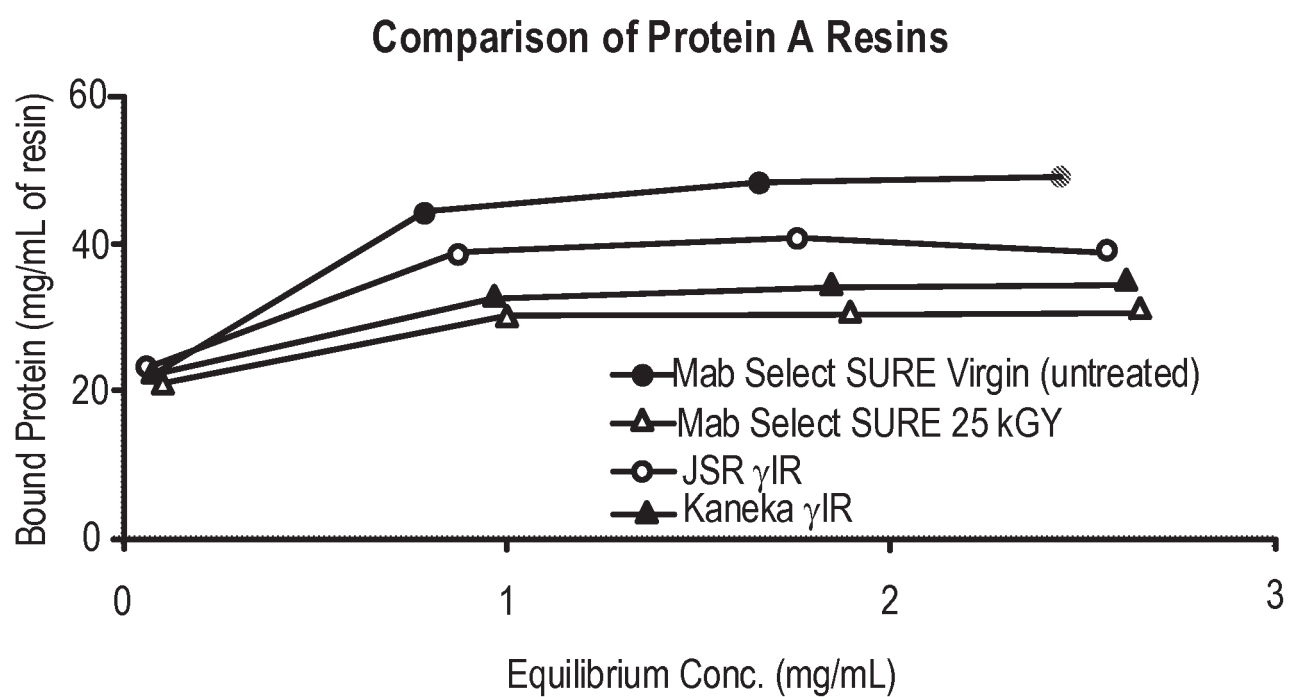


FIG. 1

Resin	A ₂₈₀
Mab Select SuRe (30 kGY)	0.07
JSR Amsphere (30 kGY)	0.14

FIG. 2

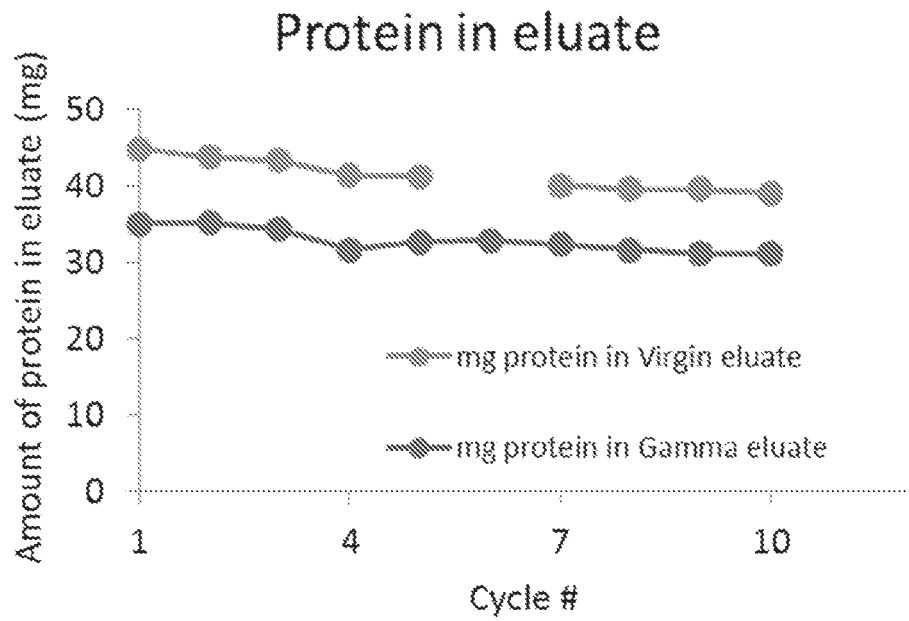


FIG. 3

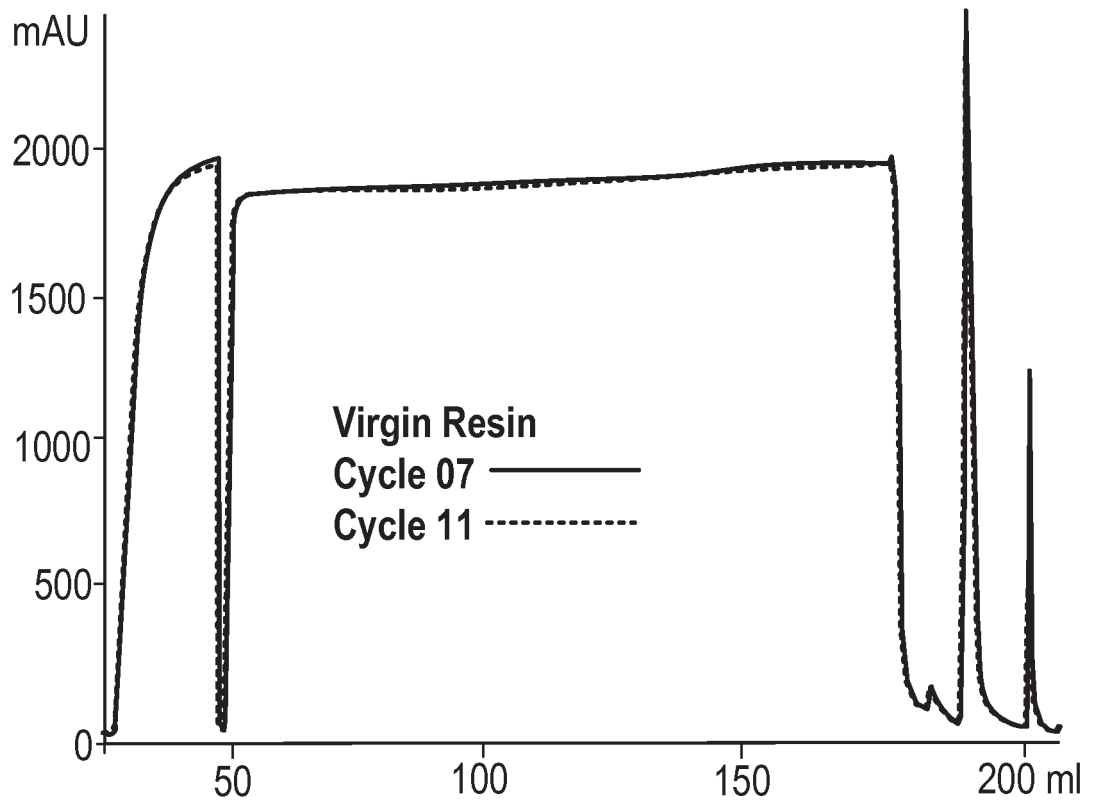


FIG. 4

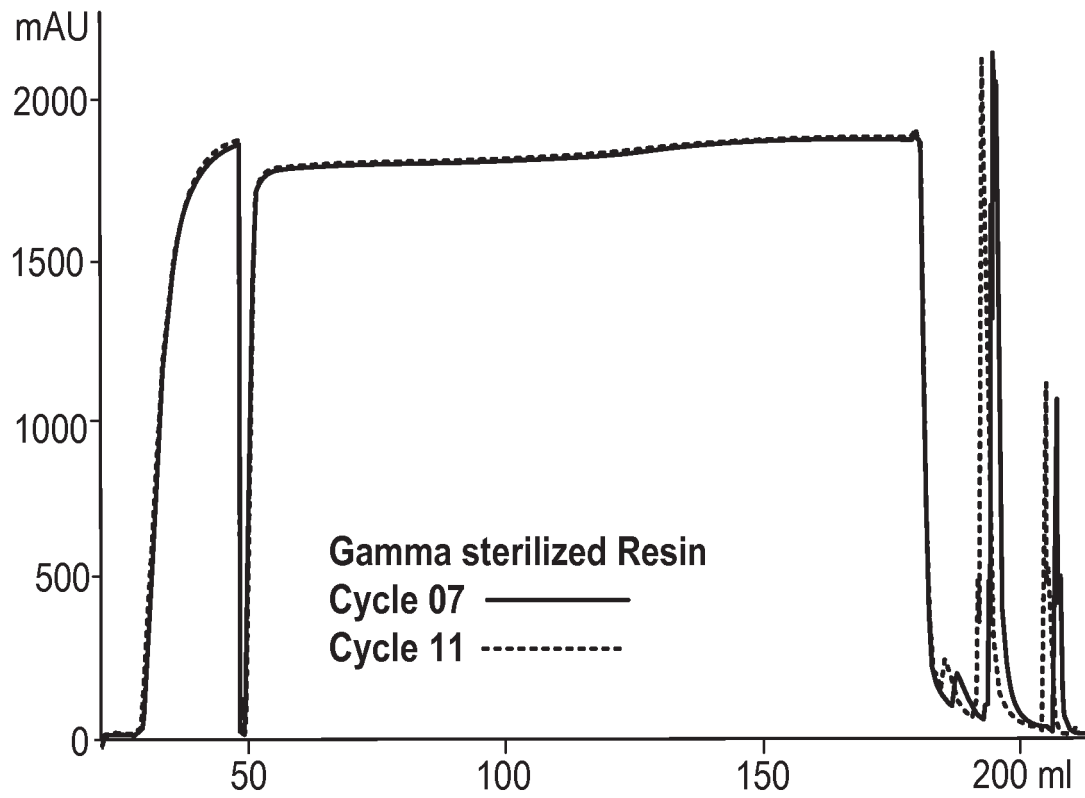


FIG. 5

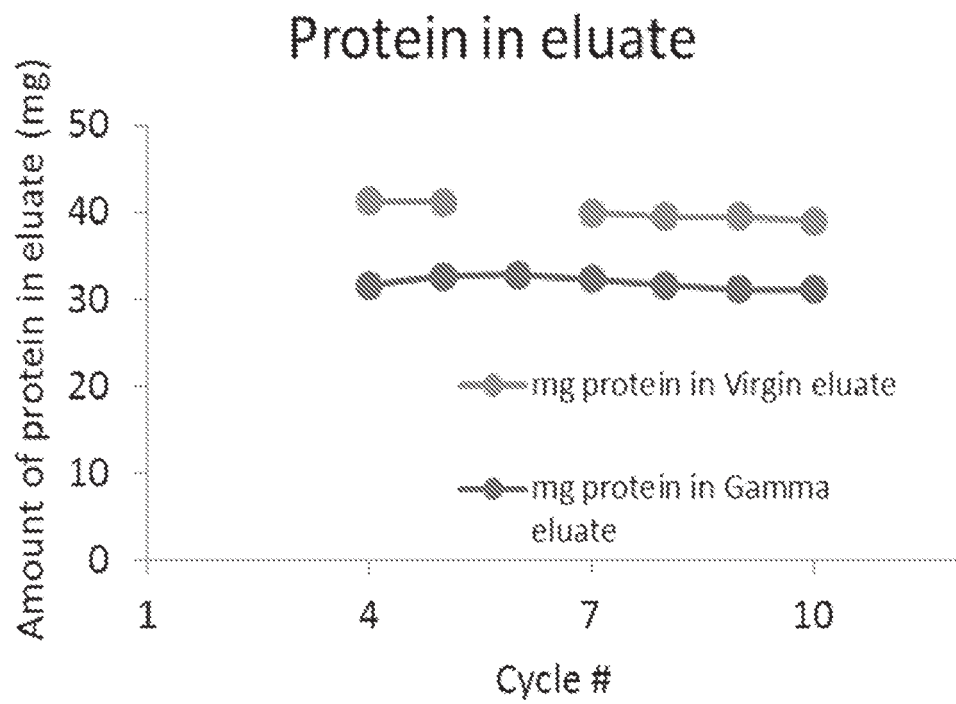


FIG. 6

Bound Protein

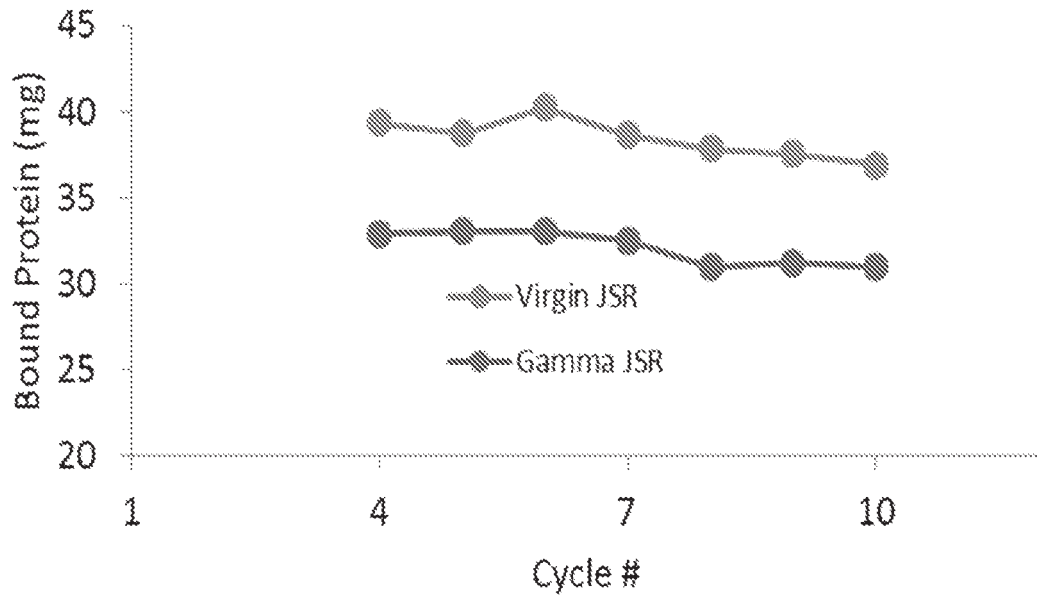


FIG. 7

Protein in eluate

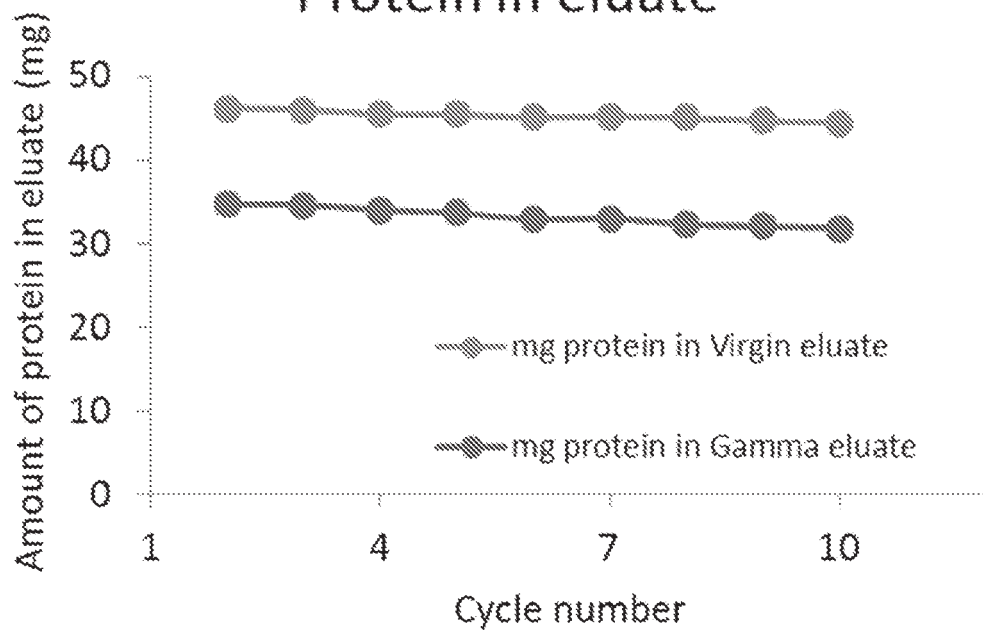


FIG. 8

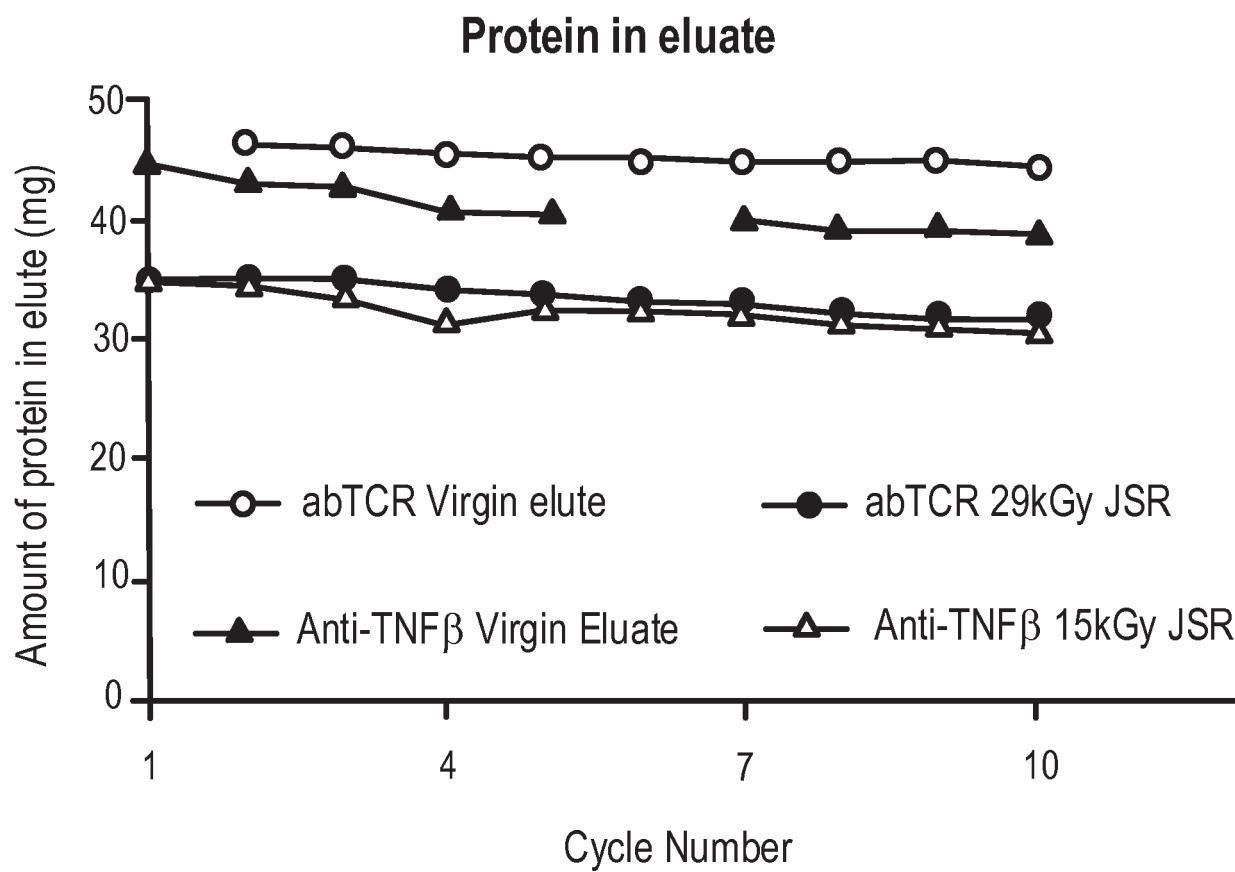


FIG. 9

Lysosomal storage diseases and associated enzymatic defects

Disease	Enzymmatic Defect
Pompe disease	acid α -glucosidase (e.g., Myozyme [®] , Lumizyme [®])
MPSI* (Hurler disease)	α -L-iduronidase (e.g., Aldurazyme [®])
MPSII (Hunter disease)	iduronate sulfatase
MPSIII (Sanfilippo)	heparan N-sulfatase
MPS IV (Morquio A)	galactose-6-sulfatase
MPS IV (Morquio B)	acid β -galactosidase
MPS VII (Sly disease)	β -glucuronidase
I-cell disease	N-acetylglucosamine-1-phosphotransferase
Schindler disease	α -N-acetylgalactosaminidase (α -galactosidase B)
Wolman disease	acid lipase
Cholestrol ester storage disease	acid lipase
Farber disease	lysosomal acid ceramidase
Niemann-Pick disease	acid sphingomvelinase
Gaucher disease	β -glucosidase (e.g., Cerezyme [®] , Ceredase [®])
Kraabbe disease	galactosylceramidase
Fabry disease	α -galactosidase A
GM1 gangliosidois	acid β -galactosidase
Galactosialidosis	β -galactosidase and neuraminidase
Tay-Sach's disease	hexosaminidase A
Sandhoff disease	hexosaminidase A and B

*MPS = mucopolysaccharidosis

FIG. 10

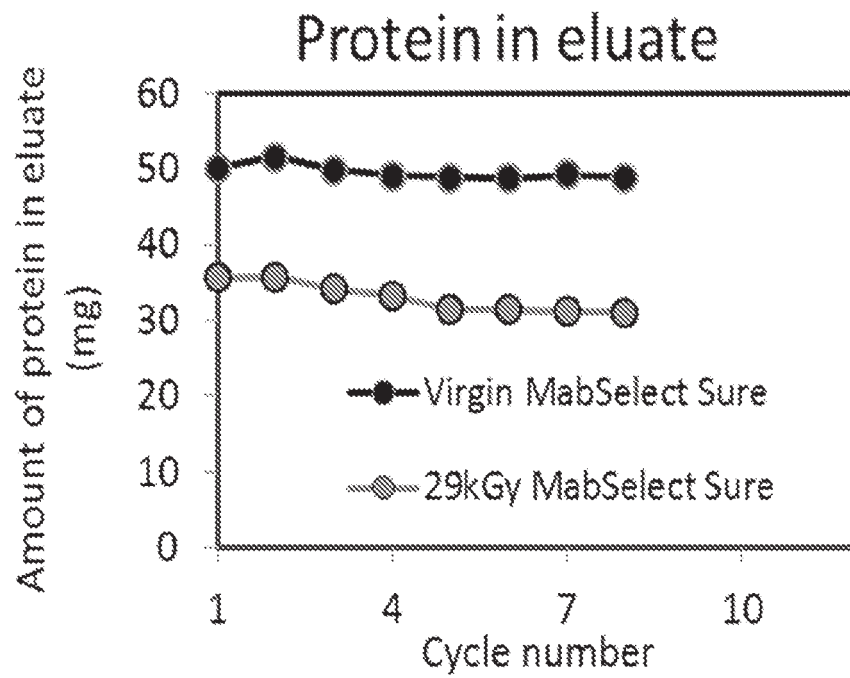


FIG. 11

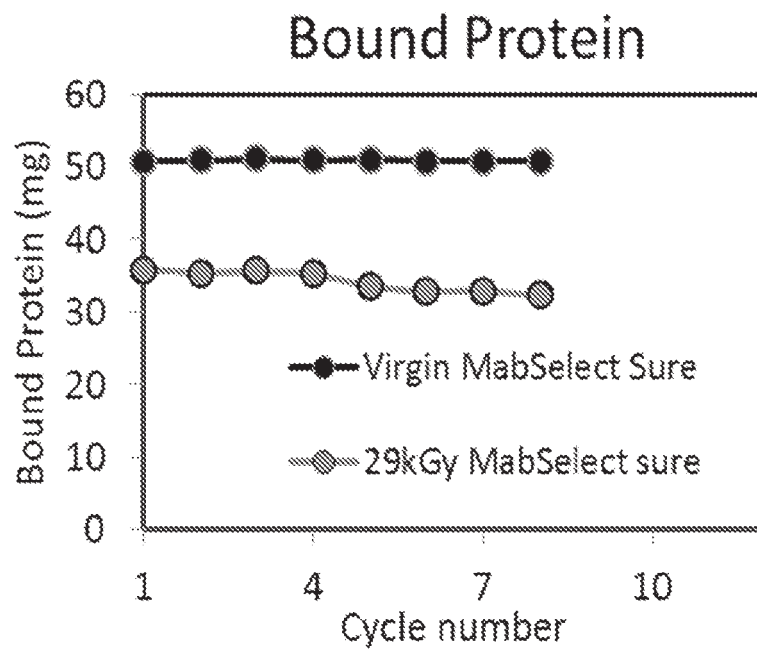


FIG. 12

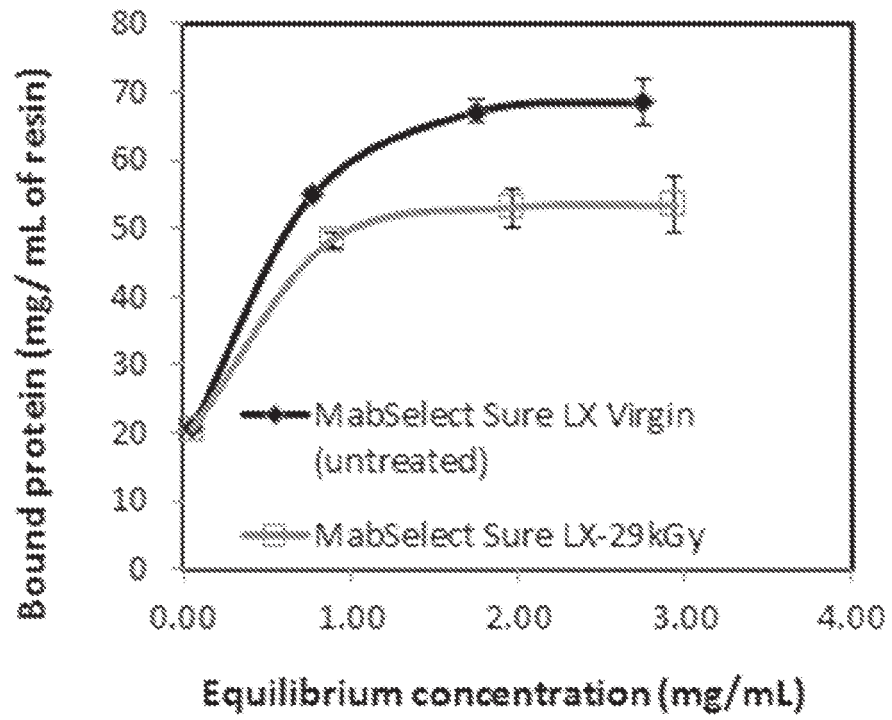


FIG. 13

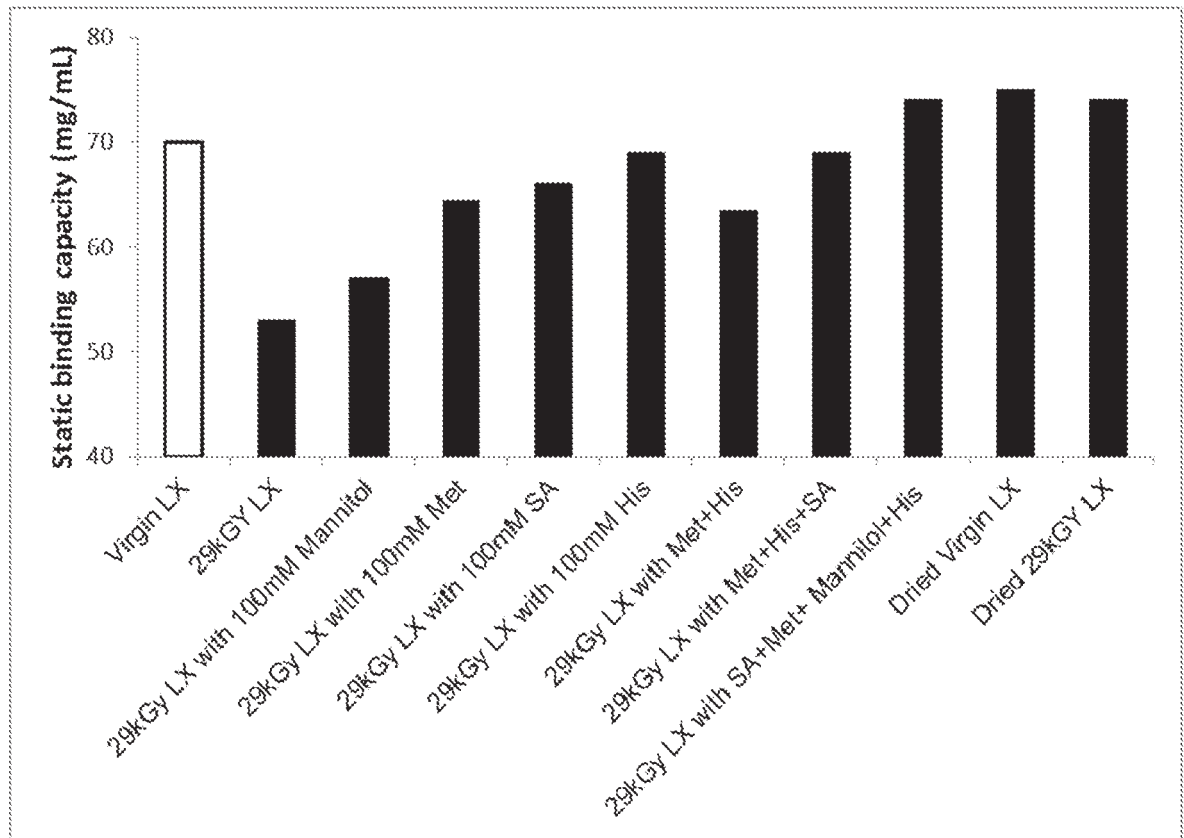


FIG. 14

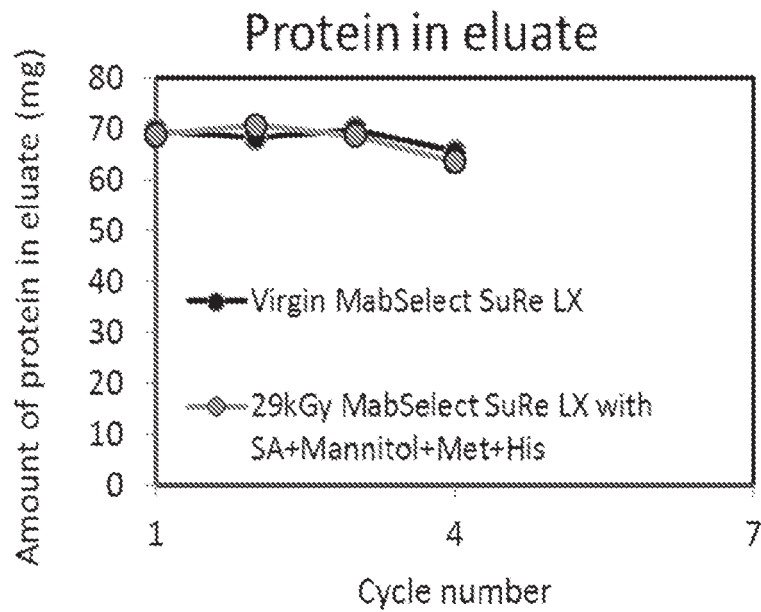


FIG. 15

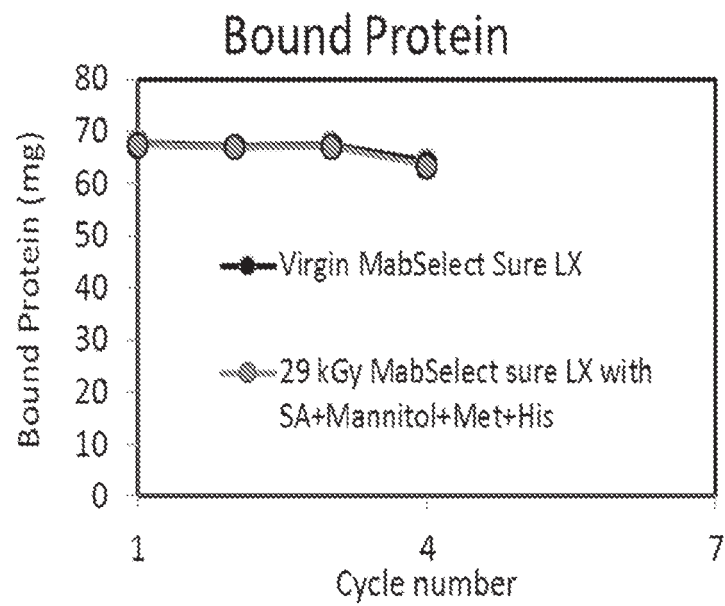
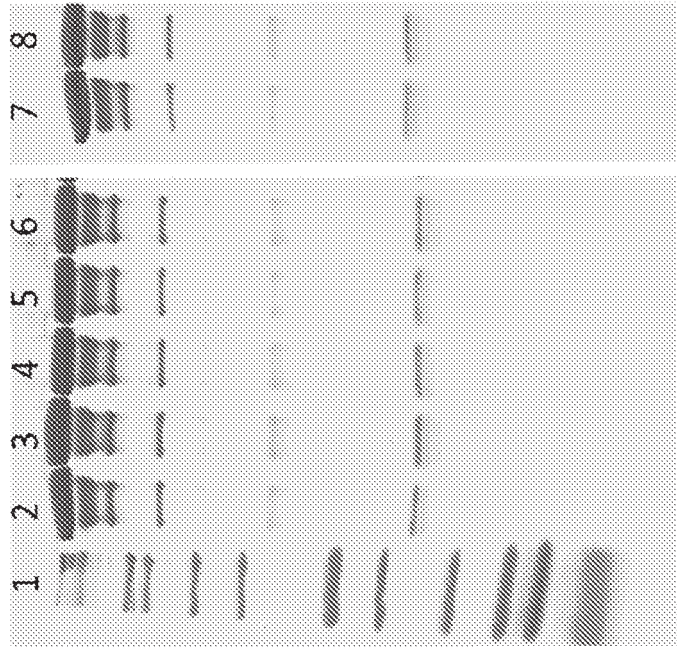


FIG. 16



Lane	Sample
1	Marker
2	Virgin LX eluate cycle 2
3	Virgin LX eluate cycle 3
4	Virgin LX eluate cycle 6
5	29 kGy SMMH cycle 2
6	29kGy SMMH cycle 3
7	Virgin LX cycle 1
8	29kGY SMMH cycle 1

FIG. 17