

# Ab-Capcher Mag™

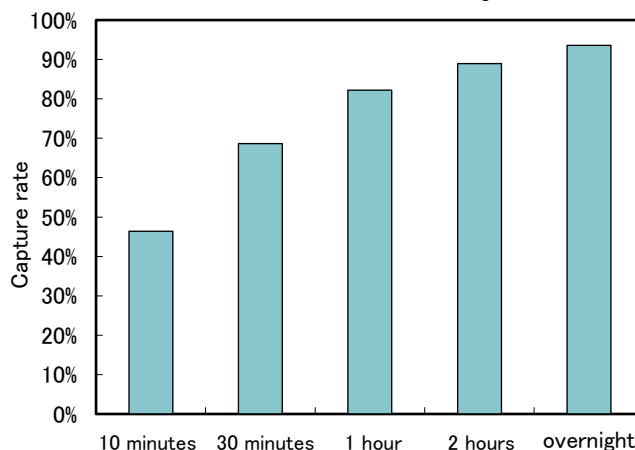
## Effect of reaction time on IgG capture rate

### Human IgG purification procedure

Human IgG (2 mg/mL) 250  $\mu$  L (total 0.5mg)  
 ↓  
 Added to Ab-Capcher Mag™ (10  $\mu$  L)  
 ↓  
 Shake (predetermined time)  
 ↓  
 Wash (PBS)  
 ↓  
 Elution with 0.1 M Glycine-HCl (pH 2.8)

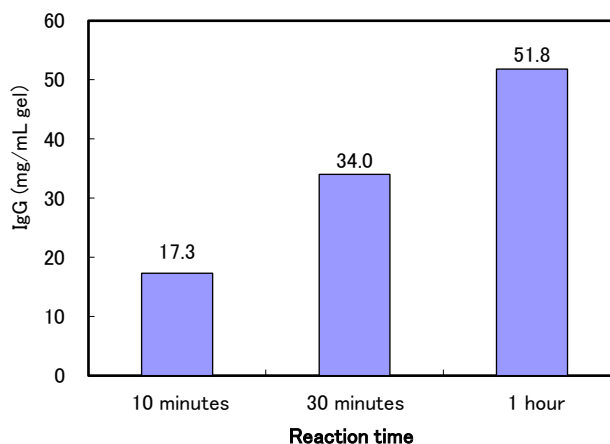
Reaction time	Recovered human IgG	
	(mg/mL gel)	Capture rate
10 minutes	23.67	46.4%
30 minutes	34.99	68.6%
1 hour	41.12	82.2%
2 hours	44.24	88.9%
overnight	46.55	93.6%

\* overnight: After shaking for 2 hours, let stand overnight in refrigerator



### Mouse IgG purification procedure

2-fold dilute mouse serum 200  $\mu$  L  
 ↓  
 Add to Ab-Capcher Mag™ 10  $\mu$  L gel  
 (10 mL/mL gel)  
 ↓  
 Shake (predetermined time)  
 ↓  
 Wash (PBS)  
 ↓  
 Elute with 0.1 M Glycine-HCl (pH 2.8)



Ab-Capcher Mag™ was studied to determine the effect of reaction time on the amount of purified antibody and its rate of capture. For human IgG, yield increased with increasing reaction time: 82% in 1 hour and 89% in 2 hours. By allowing the reaction to stand overnight (4° C), it was possible to recover 90% or more of IgG. For mouse IgG the amount of purified antibody also increased with increasing reaction time, with 51.8 mg/mL gel IgG purified in 1 hour.