

IgGZERO™

Instructions for Product no	
A0-IZ1-010	1000 units
A0-IZ1-050	5000 units
A0-IZ1-250	25000 units
A0-IZ1-999	Bulk quantity

Product Description

IgGZERO™ is an endoglycosidase with a very high specificity for IgG molecules of all species and subclasses. IgGZERO™ has a mass of 110 kDa.

Content and storage

IgGZERO™ is supplied as lyophilized powder from 10 mM sodium phosphate, 150 mM NaCl, pH 7.4, with no preservatives added.

IgGZERO™ is shipped on ice and should be stored at -20° C upon arrival.

After reconstitution IgGZERO™ is stable for 1 month at +4-8° C.

IgGZERO™ is for R&D use only.

Unit Definition

One unit cleaves $\geq 95\%$ of 1 μ g IgG when incubated in 0.01 M sodium phosphate, 0.15 M NaCl, pH 7.4 at 37° C for 30min.

Quality Control

IgGZERO™ is tested to ensure lot-to-lot consistency.

IgGZERO™ is tested for absence of microbial contamination with blood agar plates, Sabaraud dextrose agar plates and fluid thioglycolate medium.

Additional Material Required

- ✓ **Cleavage buffer:** 10 mM sodium phosphate, 150 mM NaCl, pH 7.4

Method

Reconstitute **A0-IZ1-010** in 50 μ l double distilled H₂O and **A0-IZ1-050** in 250 μ l double distilled H₂O. To prevent microbial contamination, sodium azide can be added to the solution to a final concentration of 0.02 - 0.05% (w/v).

1. Add 1000u (50 μ l) IgGZERO™ to 1 mg IgG in 1 ml cleavage buffer.
2. Incubate 30 min at 37° C.

IgGZERO™ removes the glycan moieties of IgG at pH 7.4 and at 37° C. To obtain optimal activity use cleavage buffer at 37° C.

IgGZERO™ has a Histidine-tag which can be used for removal of the enzyme after digestion.

Product References

Maria Allhorn, Arne Olsén and Mattias Collin: *EndoS from Streptococcus pyogenes is hydrolyzed by the cysteine proteinase SpeB and requires glutamic acid 235 and tryptophans for IgG glycan-hydrolyzing activity.* BioMed Central, January 8, 2008.