

## References

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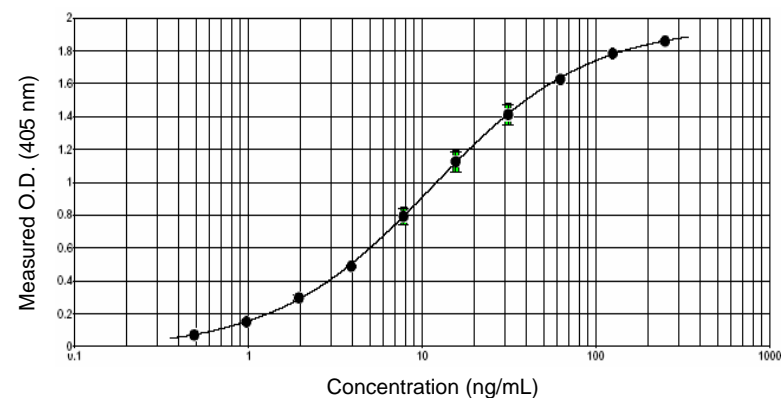


## Bla g 2 ELISA kit

Product Code: EL-BG2

Lot Number: xxxxx

### Sample Curve:



### Content:

- Vial 1 (red top) 200  $\mu$ L  
Monoclonal antibody 7C11  
Concentration: 1mg/ml in PBS
- Vial 2 (white top) 2 x 400  $\mu$ L  
Bla g 2 Standard  
Concentration: 2500ng/ml Bla g 1
- Vial 3 (brown) 200  $\mu$ L  
Rabbit anti Bla g 2 antibody  
Dilute: 1:1000 for use

**Storage: The ELISA kit should be stored at 4°C**

**For Research Use Only: Not for Diagnostic or Therapeutic Use**

## Certificate of Analysis

**Monoclonal Antibody:** 7C11 (Clone 7C11 C2 A6)  
**Product Code:** MA-7C11  
**Immunogen:** Bla g 2  
**Isotype:** Mouse IgG1  
**Specificity:** Binds to a common epitope on cockroach *Blattella germanica* allergen Bla g 2.  
**Purification:** From ascites by ammonium sulphate precipitation and by HPLC using recombinant protein G. Single heavy and light chain bands on SDS-PAGE  
**Concentration:** 1mg/ml in phosphate buffered saline, pH 7.4, based on A280 for IgG (1.42 = 1mg/ml). 0.22µm filtered, preservative free.  
**Lot Number:** xxxxx

**Antibody:** Polyclonal rabbit antibody raised against rBla g 2.  
**Product Code:** PA-BG2  
**Specificity:** Contains IgG antibodies to Bla g 2 that do not react with Bla g 1.  
**Activity:** The antibodies have been diluted in phosphate buffered saline, pH 7.4, containing 1%BSA/50% glycerol, 0.22µm filtered, preservative free. Dilute 1/1000 for use in the Bla g 2 ELISA.  
**Lot Number:** xxxx

**Allergen Standard:** Universal Allergen Standard  
**Composition:** A formulation of eight purified natural allergens prepared in 1% BSA/50% glycerol/PBS, pH 7.4  
**Concentration/Calibration:**  
**Lot Number** xxxxx

Universal Allergen Standard	Protein Measurement	Concentration (ng/ml)
Der p 1	Amino-acid analysis	2500
Der f 1	Amino-acid analysis	2500
Der p 2	Amino-acid analysis	1000
Fel d 1	Amino-acid analysis	1000
Can f 1	Amino-acid analysis	2500
Rat n 1	Amino-acid analysis	1000
Mus m 1	Amino-acid analysis	250
<b>Bla g 2</b>	<b>Amino-acid analysis</b>	<b>2500</b>

## ELISA Protocol for Bla g 2.

- Anti-Bla g 2 mAb 7C11 is supplied HPLC purified as a stock solution at 1mg/ml in PBS (Product Code: MA-7C11). Dilute the mAb 7C11 1/1000 (i.e. 10µl/10ml) in 50mM carbonate-bicarbonate buffer, pH 9.6. Coat polystyrene microtiter wells (NUNC Maxisorp Cert. NUNC catalog #439454, Fisher Catalog #12565135) with 100µl of diluted mAb 7C11 per well. Incubate overnight at 4°C.
- Wash wells 3x with PBS-0.05% Tween 20, pH 7.4 (PBS-T). Incubate for 30min at room temperature with 100µl 1% BSA-PBS-T. Wash 3x with PBS-T.
- Add 100µl of diluted allergen standard, house dust or air filter samples. Incubate for 1 hour at room temperature.
  - Make a Bla g 2 control curve using doubling dilutions of the Bla g 2 Standard (Product Code: ST-BG2): The control curve dilutions are from 250-0.5ng/ml Bla g 2. Pipette 20µl allergen standard into 180µl 1% BSA PBS-T into wells A1 and B1 of the ELISA plate. Mix well and transfer 100µl across the plate into 100µl 1% BSA PBS-T diluent to make 10 serial doubling dilutions. Wells A11, B11, and A12 and B12 should contain only 1% BSA PBS-T as blanks.
  - House dust samples are routinely diluted two-fold from 1/10 -1/80.
- Wash wells 3x with PBS-T and add 100µl diluted Rabbit anti. Bla g 2 antibody (Product Code: PA-BG2). The antibody solution contains 50% glycerol and should be diluted 1/1000 (i.e. 10µl/10ml) in 1% BSA-PBS-T. Incubate for 1 hour at room temperature.
- Wash wells 3x with PBS-T and add 100µl diluted Peroxidase conjugated Goat anti. Rabbit IgG (Jackson Laboratories Cat# 111-036-046, reconstituted in 1 ml distilled water and 1ml glycerol). The reconstituted Goat anti. Rabbit should be diluted 1/1000 (i.e. 10µl/10ml) in 1% BSA PBS-T. Incubate for 1hour at room temperature.
- Wash wells 3x with PBS-T and develop the assays by adding 100µl 1mM ABTS in 70mM citrate phosphate buffer, pH 4.2 containing a 1/1000 dilution of 30% H<sub>2</sub>O<sub>2</sub> ( i.e. 10µl/10ml ABTS). Read the plate when the optical density at 405nm reaches 2.0-2.4.

### Notes:

*Bla g 2 Allergen Standard is recommended for immunoassay calibration purposes only. Not recommended for in-vitro antibody measurements, T cell studies, immunization purposes, or other uses.*

*Buffer recipes, storage conditions and a list of frequently asked questions can be found under "Protocols" on our web site: [www.inbio.com](http://www.inbio.com).*

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