Assay Performance Characteristics:

Standard range: 100-0.19 ng/mL Limit of Detection: 0.78ng/mL Background: OD<0.1 at 450nm

Coefficient of Determination: R-squared>0.98

Plate Template:

	1	2	3	4	5	6	7	8	9	10	11	12
A												
В												
С												
D												
Е												
F												
G												
Н												

References:

- Pollart SM, Smith TF, Morris E, Gelber LE, Platts-Mills TAE, Chapman MD. Environmental exposure to cockroach allergens: analysis with monoclonal antibody based enzyme immunoassays. J Allergy Clin Immunol 87:505-510, 1991.
- 2. Gelber LE, Seltzer LH, Bouzoukis JK, Pollart SM, Chapman MD, Platts-Mills TAE. Sensitization ad exposure to indoor allergens as risk factors for asthma among patients presenting to hospital. Amer Rev Respir Dis 147:573-578, 1993.











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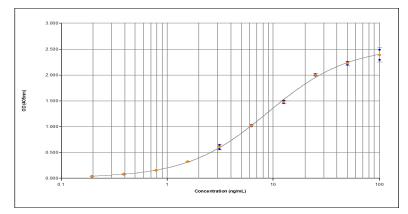


Bla g 2 ELISA 2.0

Pre-coated Plate Kit

Product Code: EPC-BG2-X

Lot Number: XXXXX



Contents:

Plate: Pre-coated with anti-Bla g 2 monoclonal antibody 7C11

Vial 1: (white top) Bla g 2 allergen standard

Concentration: 1000 ng/ml

Vial 2: (brown) Rabbit anti Bla g 2 antibody

Vial 3: (red top) Peroxidase-conjugated Goat Anti-Rabbit

Bottle 1: Wash buffer, (10x concentrate)
Bottle 2: Assay buffer, (10x concentrate)
Bottle 3: TMB developing substrate
Bottle 4: Stop solution (0.5N sulfuric acid)

Store kit at 2-8°C

Expiry: 6 months from date of receipt

For research and commercial use in vitro: not for human in vivo or therapeutic use.

Certificate of Analysis

Pre-coated Plate: 96-well polystyrene microtiter plate coated with

monoclonal antibody 7C11 and treated with stabilizing

agent. Sealed in foil pouch with desiccant.

Monoclonal Antibody: 7C11 (clone 7C11 C2 A6)

Immunogen: Bla g 2 Isotype: Mouse IgG1

Specificity: Binds to an epitope on cockroach Blattella germanica

allergen, Bla g 2.

Purification: Produced in ascites and purified by ammonium sulphate

precipitation and affinity chromatography using Protein A.

Single heavy and light chain bands on SDS-PAGE.

Lot Number: XXXXX

Detection Antibody: Rabbit polyclonal antiserum

Immunogen: Recombinant Bla g 2

Isotype: Multiple

Specificity: The antiserum contains IgG antibodies to cockroach

Blattella germanica allergen, Bla g 2 and does not

react with Bla g 1.

Activity: Titrated for use in ELISA at 1/1000 dilution. Prepared in

1% BSA/50% glycerol/PBS, pH 7.4, 0.22 µm filtered,

preservative free.

Lot Number: XXXXX

Allergen Standard: Purified natural Bla g 2 prepared in 1% BSA/50%

glycerol/PBS, pH 7.4.

Concentration: 1000 ng/mL (based on amino acid analysis)

Lot Number: XXXXX

Materials required, but not provided:

- Type I ultrapure water or 18.2MΩ de-ionized water
- Volumetric measuring equipment (e.g. serological pipette, graduated cylinder)
- Clean containers for buffer and reagent preparation
- Calibrated single and multi-channel micropipettes and tips
- Vortex mixer
- Plate reader capable of reading absorbance at 450nm
- Analysis software (recommended, but not required)

Protocol

Please read entire protocol before starting the assay

Bring all reagents to room temperature and vortex before use.

- Allow the pre-coated plate to reach room temperature while in the sealed pouch.
- 2. Prepare 1x working dilutions of the 10x wash and assay buffers in clean containers using $18.2M\Omega$ de-ionized water or Type I ultrapure water. For one plate:

Wash buffer: add 15mL concentrate to 135mL water **Assay buffer:** add 2.5mL concentrate to 22.5mL water Adjust volumes accordingly for multi-plate assays. *Diluted buffers may be stored at 4°C for up to 1 week

- 3. Remove the plate from the foil pouch and wash by adding 150µL wash buffer to each well. Empty the wells by inverting the plate and tapping on absorbent paper. Repeat the wash 2x.
- Add standards, samples and blanks to the plate (final volume in all wells should be 100uL).

Standards: pipette 180µL assay buffer into wells A1 and B1 and 100µL into remaining wells of rows A and B. Add 20µL Bla g 2 standard to wells A1 and B1. Mix well and transfer 100µl into wells A2 and B2. Continue across the plate to wells A10 and B10 to make 10 serial doubling dilutions.

Samples: dust extracts for Bla g 2 analysis are routinely diluted two-fold starting at 1/10. Other types of samples, like air filter extracts and allergen extracts, may require different dilutions. It is recommended to test each sample at a minimum of three dilutions; 6-12 are recommended.

Blanks: add assay buffer to wells A11, B11 and A12, B12.

- 5. Return the plate to the foil pouch or cover with plate sealer and incubate for 1 hour at room temperature.
- 6. Wash wells 3x with 150µL wash buffer. Prepare a 1:1,000 detection antibody/ conjugate mix by adding 10µL Rabbit polyclonal antiserum and 10µL Peroxidase Conjugated Goat Anti-Rabbit to 10mL assay buffer. Mix well and add 100µl to each well.
 - Cover and incubate for 1 hour at room temperature.
- 7. Wash wells 3x with 150µL wash buffer. Add 100µl TMB substrate to each well and monitor the reaction as the blue color develops. When OD450nm reaches 0.08 for the first standard in wells A1 and B1 (generally within 1-5 minutes), add 50µL stop solution (the color will change to yellow).
- 8. Read the plate at 450nm. The ideal OD for standard 1 is 2.0-2.5.

Notes:

The allergen standard is recommended for immunoassay calibration purposes only.

A list of frequently asked questions and troubleshooting guide can be found under the 'Support' tab on our web site: www.inbio.com.