

BioKits

BLG Assay Kit

Cat. No. 902061Y

For the detection and quantification of β -Lactoglobulin in food and environmental swabs by enzyme immunoassay



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Intended Use

The *BioKits* BLG (β -Lactoglobulin) Assay kit is intended to be used for the detection of bovine BLG and Whey proteins/concentrates in uncooked and cooked foods containing milk, milk products and hydrolysed milk preparations.

Testing for the presence of BLG in foods is important due to the potential for BLG to act as a food allergen in sensitive individuals, especially children. Testing is also performed because BLG in its various forms has valuable functional properties and food manufacturers may need to monitor its presence to deliver the required characteristics to processed foods.

The Assay

The assay utilises polyclonal antibodies to BLG in an indirect competitive immunoassay. The standards provide accurate quantification in parts per million (ppm). Food samples are extracted using a carbonate / bicarbonate extraction solution before testing in the assay.

Key features

- ✓ High sensitivity (LOD: 2 ppm BLG)
- ✓ Five standards: 2.5, 5, 10, 20 & 40 ppm BLG
- ✓ Fully Validated
- ✓ Quantitative or Qualitative
- ✓ Spike control supplied
- ✓ Versatility: Test Food & Swabs
- ✓ Flexibility: **NEW** 48 well format
- ✓ Assay time: ~ 1hr 30 min

Specifications:

Format	48 well Indirect competitive enzyme immunoassay
Limit of detection	2 ppm BLG
Quantification range	2.5 to 40 ppm
Units of measurement	BLG
Specificity	Polyclonal antibody specifically detects BLG
Time required:	5 Sample Extraction Time approx 40 minutes Test Incubation Time 120 minutes
Sample Preparation	Buffer preparation, stomaching and centrifugation
Calibration	NIST SRM8435 (Whole Milk Powder)
Cross Reactivity	BLG (100%), Whey Powder kit control (23%), Caseins/caseinates (<1.5%), α -Lactalbumin (<1%), not suitable for testing 100% egg

Suitability

Suitable to test for the presence BLG/whey powders and concentrates in raw, cooked or processed foods; raw materials; baby food, & environmental swabs taken with the *BioKits* Allergen Swabbing Kit (Cat. No. 901042J).