



anti-MAG Antibodies ELISA

MAG = Myelin Associated Glycoprotein

For *In Vitro* Diagnostic Use

EK-MAG 96 tests

Release Date: 2023-05-31
Version A2



INTENDED USE

The anti-MAG Antibodies ELISA is an *in vitro* diagnostic assay for the semi-quantitative determination of anti-MAG IgM antibodies in human serum samples. The assay is intended as an aid to diagnosis of anti-MAG neuropathy in conjunction with other clinical and laboratory findings.

For laboratory use only.

PRINCIPLE OF THE ASSAY

The anti-MAG Antibodies ELISA allows the measurement of IgM antibodies against the Myelin Associated Glycoprotein (MAG) in serum by sandwich ELISA. The microtiter plate is coated with purified MAG from human brain. Patient sera, controls, and calibrators are added to the wells of the microtiter plate. After 2 hours of incubation at 2 – 8°C and washing steps, a detection antibody conjugated to horseradish peroxidase (HRP) detects the anti-MAG antibodies bound to the human MAG on the plate. After another 2 hours of incubation and further washing steps, the chromogenic HRP substrate, tetramethylbenzidine (TMB), is added (blue color formation) followed by a stopping reaction (change to yellow color). The absorption is measured at 450 nm. The level of anti-MAG antibodies is determined using the calibration curve generated from the measured calibrator values and is expressed as BÜHLMANN Titer Unit (BTU).

REAGENTS SUPPLIED AND PREPARATION

Reagents	Quantity	Code	Reconstitution
Microtiter Plate 96 wells precoated with human MAG	12 x 8-well strips with frame	B-MAG-MP	Ready to use
Plate Sealer	3 pieces	-	Ready to use
Wash Buffer Concentrate (10x)	1 bottle x 100 mL	B-MAG-WB	Dilute with 900 mL of deionized water
Incubation Buffer with preservatives	1 bottle x 100 mL	B-MAG-IB	Ready to use
Calibrators A to D¹ lyophilized with preservatives	4 vials	B-MAG-CASET	Add 1 mL of Incubation Buffer
Control Low and High² lyophilized with preservatives	2 vials	B-MAG-CONSET	Add 1 mL of Incubation Buffer

Reagents	Quantity	Code	Reconstitution
Enzyme Label IgM anti-human IgM antibody conjugated to HRP in a buffer matrix with preservatives	1 vial x 11 mL	B-MAG-ELM	Ready to use Blue solution
TMB Substrate TMB in citrate buffer	1 vial x 11 mL	B-TMB	Ready to use
Stop Solution 0.25 M sulfuric acid	1 vial x 11 mL	B-STs	Ready to use Corrosive agent

Table 1

¹ After reconstitution, calibrators A, B, C and D contain 70000, 15000, 3000 and 1000 BÜHLMANN Titer Units (BTU) of anti-MAG antibodies, respectively.

² The controls contain lot specific amounts of anti-MAG antibodies. Refer to the additional QC data sheet for actual levels.

STORAGE AND SHELF LIFE OF REAGENTS

Sealed / unopened reagents	
Store at 2-8 °C. Do not use the reagents beyond the expiration date printed on the labels.	
Opened / reconstituted reagents	
Microtiter Plate	Return unused strips immediately to the foil pouch containing the desiccant packs and reseal along the entire edge of zip-seal. Store for up to 5 months at 2-8 °C.
Diluted Wash Buffer	Store for up to 5 months at 2-8 °C.
Incubation Buffer	
Enzyme Label IgM	
TMB Substrate	Aliquot after reconstitution and store at ≤-20 °C. Store for up to 5 months at ≤-20 °C. ¹
Controls	
Calibrators	Store for up to 5 months at 18-28 °C.
Stop Solution	

Table 2

¹ Reconstituted calibrators and controls can be subject to three freeze-thaw cycles during the 5 months.

MATERIALS REQUIRED BUT NOT PROVIDED

- Precision pipettes with disposable tips: 10 µL, 20 µL, 100 µL and 1000 µL pipettes
- Disposable polystyrene or polypropylene tubes for the preparation of sample dilutions
- 1000 mL cylinder for the dilution of the wash buffer
- Microtiter plate washer
- Blotting paper
- Microtiter plate shaker
- Microtiter plate reader for measurement of absorbance at 450 nm

WARNINGS AND PRECAUTIONS

Safety precautions

- The calibrators, controls and microtiter plate of this kit contain components of human origin. Although tested and found negative for HBV, HCV and HIV1/2, the reagents should be handled as if capable of transmitting infections and should be handled in accordance with Good Laboratory Practices (GLP) using appropriate precautions.
- This kit contains components classified in accordance with the Regulation (EC) No. 1272/2008:
 - The stop solution contains sulfuric acid (conc. 2.5 – 5%), thus the reagents may cause skin irritation (H315), serious eye irritation (H319), and may be corrosive to metals (H290).
 - The calibrators, and controls contain gentamicin sulfate (powder), thus, the reagents may cause an allergic skin reaction (H317) and allergy or asthma symptoms or breathing difficulties if inhaled (H334). And they contain thiomersal (powder), thus, the reagent is fatal if swallowed, in contact with skin, or if inhaled (H300+H310+H330).
 - The incubation buffer and wash buffer contain Triton™ X-100 (polyethylene glycol tert-octylphenyl ether, conc. < 1%), thus the reagents cause serious eye irritation (H319).
 - The enzyme label contains Triton™ X-100 (polyethylene glycol tert-octylphenyl ether, conc. < 1%), thus the reagents cause serious eye irritation (H319). And it contains gentamicin sulfate (conc. < 1%), thus, the reagents may cause an allergic skin reaction (H317).
- Avoid contact of reagents with the skin, eyes, or mucous membranes. If contact does occur, immediately wash with generous amounts of water; otherwise, irritation / burns can occur.
- Reagents and chemicals have to be treated as hazardous waste according to the national biohazard safety guideline or regulation.

Technical precautions

- Read the instructions carefully prior to carrying out the test. Test performance will be adversely affected, if reagents are incorrectly diluted, modified or stored under conditions other than those as detailed in this instruction for use.

ELISA procedure

Temperature of reagents

- Prepare reagents before starting the assay procedure. Steps 3-9: Reagents used in steps 3-9 must be cold (2-8 °C) and kept cold while pipetting and washing. Recommendation: Prepare the wash buffer the day before performing the assay and place it into the fridge overnight.
- Perform all wash steps with cold (2-8 °C) wash buffer.
- Adjust TMB substrate and stop solution to room temperature (18-28 °C) at the start of the assay procedure.

Washing steps

- Wash steps 3, 6 and 9 are crucial to remove residues resulted from the production process and/or potentially unbound antibodies in the wells.
- An automated washer operating in “plate mode” is strongly recommended, i.e. each process step (dispense / aspiration) is carried out on all of the strips, sequentially, before the instrument continues with the next washing cycle.
- Make sure that all wells are completely empty after the last washing cycle.

Substrate incubation

- Step 11: Shake the microtiter plates during incubation with substrate. Depending on the model of the plate shaker we recommend 400-600 rpm. The solution should move in the wells but must not spill over.

Additional sample dilution

- Samples exceeding 70'000 BTU can be diluted into the analytical measurement range (>1000 BTU, <70'000 BTU). Use incubation buffer for dilution of serum samples.

Kit components

- Components must not be used after the expiry date printed on the labels.
- Do not mix different lots of reagents.
- Every effort should be made to ensure that no cross contamination occurs between reagents, samples or between wells.
- Microwells cannot be re-used.

SPECIMEN COLLECTION AND STORAGE

The procedure requires <0.1 mL of blood or <50 µL of serum, respectively.

Collect blood into plain venipuncture tubes without any additives and avoid hemolysis. Perform serum preparation according to manufacturer's instructions. Decant the serum.

Serum samples can be stored at 2-8 °C for up to 16 days or at -20 °C up to 12 months. Frozen samples should be thawed and mixed thoroughly by gentle swirling or inversion prior to use.

We recommend preparing aliquots of serum samples before freezing in order to avoid repeated freeze/thaw cycles.

ASSAY PROCEDURE

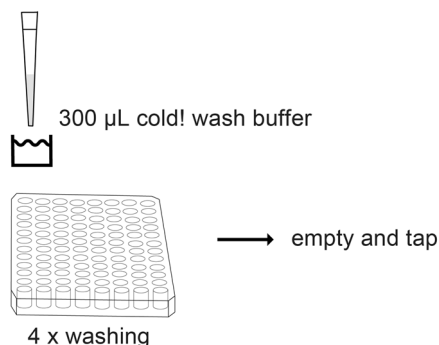
Note: Adjust TMB substrate solution to room temperature (18-28 °C).

1. Dilute samples 1:1000 with incubation buffer. Use e.g. 2 µL of serum + 2000 µL of cold! (2-8 °C) incubation buffer. Mix thoroughly by vortexing and leave diluted samples as well as reconstituted calibrators and controls at 2-8 °C for 30 minutes prior to pipetting (refer to steps 4a - c).
2. Prepare a plate-frame with sufficient strips to test the required number of calibrators, controls and samples. Remove excess strips from the frame and reseal it in

the foil pouch together with the desiccant packs without delay. Store refrigerated.

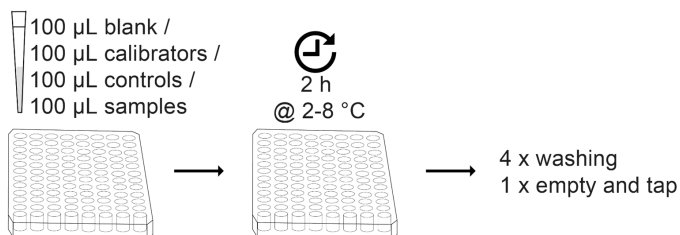
Note: Use cold reagents in steps 3 to 9.

3. Wash the wells four times using at least 300 μL of cold! (2-8 $^{\circ}\text{C}$) wash buffer per well. Empty the wells and tap plate firmly onto blotting paper to remove remaining liquid completely.

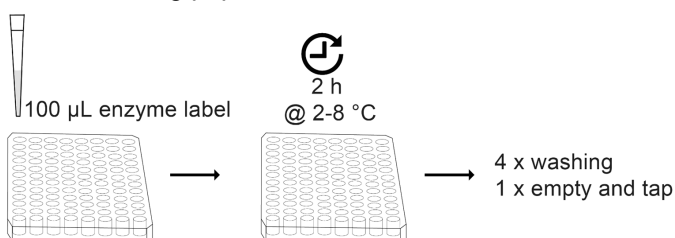


Note: Immediately proceed to the next steps.

- 4a. Pipet 100 μL of incubation buffer (blank) in duplicate and
Pipet 100 μL of calibrator A-D in duplicate into the respective wells.
- 4b. Pipet 100 μL of the controls low and high in duplicate into the respective wells.
- 4c. Pipet 100 μL of each diluted sample into the subsequent wells.
5. Cover the plate with a plate sealer and incubate for 2 hours (± 5 min) at 2-8 $^{\circ}\text{C}$ (do not shake the plate).
6. Remove the plate sealer. Empty the wells and wash four times using at least 300 μL of cold! (2-8 $^{\circ}\text{C}$) wash buffer per well. Empty the wells and tap the plate firmly onto blotting paper in order to remove wash buffer completely.

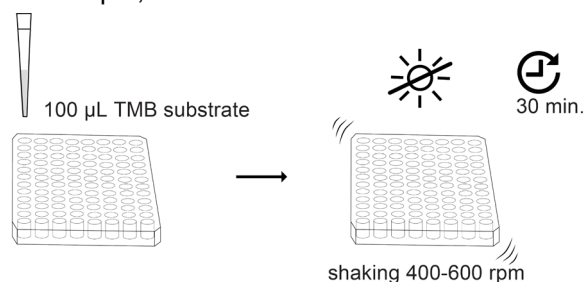


7. Add 100 μL of enzyme label IgM to all wells.
8. Cover the plate with a plate sealer and incubate for 2 hours (± 5 min) at 2-8 $^{\circ}\text{C}$ (do not shake the plate).
9. Remove the plate sealer. Empty the wells and wash four times using at least 300 μL of cold! (2-8 $^{\circ}\text{C}$) wash buffer per well. Empty the wells and tap the plate firmly onto blotting paper.



10. Add 100 μL of TMB substrate solution (equilibrated to room temperature) to each well.

11. Cover the plate with a plate sealer, protect the plate from light and incubate on a plate shaker set at 400-600 rpm, at 18-28 $^{\circ}\text{C}$ for 30 ± 2 minutes.



12. Add 100 μL of stop solution to all wells. Remove air bubbles with a pipette tip. Proceed to step 13 within 30 minutes.

13. Read the absorbance at 450 nm in a microtiter plate reader.



QUALITY CONTROL

Thorough understanding of this instruction for use is necessary for the successful use of the product. Reliable results will be obtained only by using precise laboratory techniques and accurately following this instruction for use.

The anti-MAG Antibodies ELISA kit comes with two controls: controls low and high. The controls have assigned value ranges indicated on the QC-data sheet supplied with each kit. The control measurements must be within the indicated value ranges to obtain valid results.

In addition to kit controls, we recommend the use of serum pools for internal quality control.

The reproducibility of standard curve parameters and control values should be within established limits of laboratory acceptability. If the performance of the assay does not meet the established limits and repetition has excluded errors in technique, check the following issues: i) temperature controlling (reagents used in step 3-9 kept at 2-8 $^{\circ}\text{C}$) ii) accuracy of thermometers, pipetting and timing devices; iii) ELISA reader settings; iv) expiration dates of reagents; v) storage and incubation conditions; vi) color of TMB substrate solution (should be colorless); vii) purity of water; viii) aspiration and washing methods.

STANDARDIZATION AND METROLOGICAL TRACEABILITY

There are no internationally or nationally recognized reference materials or reference measurement procedures for anti-MAG antibodies in serum samples. The anti-MAG Antibodies ELISA is standardized against an internally established reference material. Calibrator and control values are assigned according to a value transfer protocol (ref. 1,2), to guarantee metrological traceability and are indicated in arbitrary BÜHLMANN Titer

Units. The 95% confidence interval of the combined uncertainty of product calibrators and controls is lower than 35%.

CALCULATION OF TEST RESULTS

Standard curve

Use a software program capable of the following calculations:

- subtract the blank OD value from each calibrator well to calculate the calibrator value.
- Establish a standard curve using a 4-parameter logistic (4 PL) fit.

Controls and Samples

Use a software program capable of the following calculations;

- subtract the blank OD value from each control/ sample well. Calculate anti-MAG antibody level of the controls / sample in each well, in BTU, using the established standard curve.

Note: Results presented in table 6 and figure 1 are examples and are provided for demonstration purposes only. A calibration curve must be generated for each set of samples to be tested.

LIMITATIONS

- There is currently no internationally accepted reference method for the detection of anti-MAG IgM antibodies. Refer to the chapter “Standardization and metrological traceability”. Results should be interpreted using cut-offs indicated in this instruction for use.
- This test has not been validated for CSF, and plasmapheresis.
- Intravenous immunoglobulins (IVIg) and cryoglobulins may affect test results.

RESULT INTERPRETATION

Result	Interpretation
< cut-off	Negative result
≥ cut-off	Positive result (indication of anti-MAG antibody presence)

Table 3

Test results should be interpreted in conjunction with information available from the clinical assessment of the patient and other diagnostic procedures.

REFERENCE INTERVALS AND CUT-OFF

The reference interval of the anti-MAG Antibodies ELISA test was established according to CLSI EP28-A3 with 141 serum samples from apparently healthy individuals aged 18 to 70 years. The results are provided in table 4.

Reference Interval [BTU]	
2.5 th percentile (90% CI)	97.5 th percentile (90% CI)
0 (0 - 0)	0 (0 - 988)

Table 4

Thousand (1000) BTU is an established cut-off and used in published studies (ref. 5, 6, 9).

Deviating cut-off values have also been used in scientific literature (ref. 3, 4, 7, 8, table 13) and titer categories for positive test results have been proposed (ref. 10).

PERFORMANCE CHARACTERISTICS

Performance characteristics are based on mean results from 2 wells.

Repeatability: 3.2 – 11.8% CV

Within-laboratory precision: 5.5 – 15.9% CV

Repeatability and within-laboratory precision were established according to the CLSI guideline EP05-A3 using the standardized 20 days x 2 runs x 2 replicates study design. Four (4) pooled human serum samples, covering the measuring range of the assay, were tested. A fifth negative sample at 213 BTU yielded 79/80 results (98.8%) within category (< 1'000 BTU). The results are summarized in table 7 and 8.

Reproducibility: 10.0 – 21.6% CV

Reproducibility was established according to the CLSI guideline EP05-A3 by performing measurements using a 3 operators x 3 instruments/lots x 5 days x 5 replicates study design. Four (4) pooled human serum samples, covering the measuring range of the assay, were tested. A fifth negative sample at 55 BTU yielded 75/75 results (100.0%) within category (< 1'000 BTU). The results are summarized in table 9 and 10.

Limit of Detection (LoD): 113 BTU

The LoD was established according to the CLSI guideline EP17-A2 and with proportions of false positives (α) less than 5% and false negatives (β) less than 5% based on 120 determinations, with 60 blank and 60 low level replicates; and a **LoB of 17 BTU**.

High dose hook effect

Samples with anti-MAG antibody levels of up to 2.8*10⁵ BTU can be measured without limiting the measuring range of the assay.

Cross-reactivity/ Other etiologies

The cross-reactivity of the anti-MAG Antibodies ELISA was tested for samples assigned with an autoimmune disease. Different type of autoimmune diseases and associated presence of antibodies are shown in table 11.

Other samples with different etiologies were also tested with the anti-MAG Antibodies ELISA and are presented in table 12.

All samples, except for one out of five GD1b positive sample, were below technical cut-off (1'000 BTU).

CLINICAL PERFORMANCE

The clinical performance was assessed by meta-analysis of peer-reviewed scientific literature. Seven studies addressed the clinical performance of the anti-MAG Antibodies ELISA in the diagnosis of IgM monoclonal gammopathy-associated neuropathies (ref. 3-9). Results of analysis and study details are provided in table 5 and table 13, respectively.

N neuropathy	344
N controls	447
Sensitivity (95% CI)	58.9% (47.2 – 69.6 %)
Specificity (95% CI)	98.2% (89.7 – 99.7%)
ROC AUC	0.75

Table 5

CI - confidence interval

ROC AUC - area under receiver operating characteristic curve

INTERFERING SUBSTANCES

The susceptibility of the Anti-MAG Antibodies ELISA assay to oral and injectable pharmaceuticals, as well as to endogenous substances was assessed according to the CLSI guideline EP07-A3. Bias in results exceeding 20% was considered interference.

No interference was detected with the following substances up to the listed concentrations: intravenous immunoglobulin (20 mg/mL), cladribine (273 ng/mL), Interferon alpha-2a (49.5 ng/mL), ibuprofen (0.22 mg/mL), rheumatoid factor (680 IU/mL), hemoglobin (10 mg/mL), hemolysate (10 mg/mL), triglyceride (20 mg/mL), conjugated bilirubin (0.4 mg/mL), unconjugated bilirubin (0.4 mg/mL).

Example of results

	Level [BTU]	Absorbance [OD]	Calc. Level [BTU]	CV [%]
Blank 1		0.046		
Blank 2		0.049		
Average		0.048		
Calibrator A	70000	2.195	70497	
Calibrator A	70000	2.188	69508	
Average	70000	2.191	70000	0.2
Calibrator B	15000	1.272	15313	
Calibrator B	15000	1.245	14693	
Average	15000	1.258	15000	1.5
Calibrator C	3000	0.417	3070	
Calibrator C	3000	0.400	2931	
Average	3000	0.408	3000	2.9
Calibrator D	1000	0.135	1009	
Calibrator D	1000	0.132	991	
Average	1000	0.134	1000	1.5
Control LOW		0.360	2602	
Control LOW		0.376	2731	
Average		0.368	2666	3.1
Control HIGH		1.395	18433	
Control HIGH		1.383	18090	
Average		1.389	18261	0.6
Sample 1		0.001	255	
Sample 1		0.009	297	
Average		0.005	276	116.5
Sample 2		1.092	11599	
Sample 2		0.969	9511	
Average		1.030	10555	8.5

Table 6

Example of standard curve (OD₄₅₀)

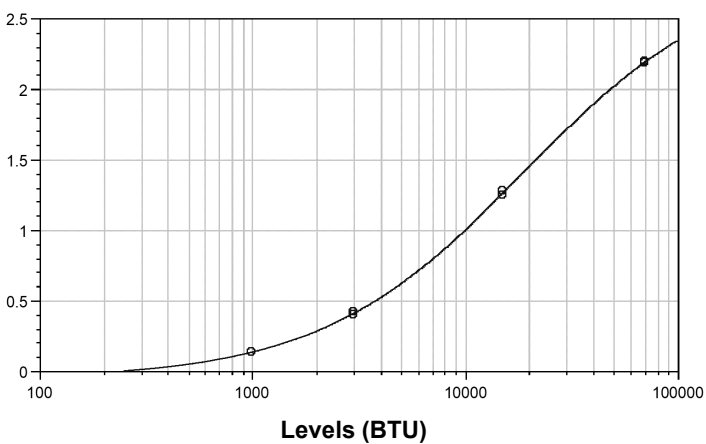


Figure 1

Within-laboratory precision

ID	Mean Level, BTU	n	Within-run		Between-run		Between-day		Within-laboratory	
			SD	%CV	SD	%CV	SD	%CV	SD	%CV
S2	2251	80	267	11.8	199	8.8	130	5.8	357	15.9
S3	8849	80	349	3.9	314	3.6	122	1.4	485	5.5
S4	19683	80	622	3.2	1492	7.6	908	4.6	1855	9.4
S5	37185	80	1684	4.5	3083	8.3	1466	3.9	3806	10.2

Table 7

ID	Description	n	Mean Level, BTU	% Within category
S1	< 1'000 BTU (negative)	80	213	98.8

Table 8

Reproducibility

ID	Mean Level, BTU	n	Within-run		Between-run		Between-day		Within-laboratory	
			SD	%CV	SD	%CV	SD	%CV	SD	%CV
S2	2802	75	181	6.5	517	18.4	261	9.3	606	21.6
S3	9052	75	258	2.9	821	9.1	279	3.1	904	10.0
S4	18241	75	531	2.9	1146	6.3	1475	8.1	1942	10.6
S5	34713	75	893	2.6	2740	7.9	2023	5.8	3521	10.1

Table 9

ID	Description	n	Mean Level, BTU	% Within category
S1	< 1'000 BTU (negative)	75	55	100.0

Table 10

Cross-reactivity/ other etiologies

Assigned antibody	Diagnose	#
Anti-neutrophil cytoplasmatic antibody (ANCA)	Vasculitis	3
	Others (ANCA positive denoted samples)	10
Anti-nuclear antibodies (ANA)	Systemic lupus erythematosus	5
	Rheumatoid arthritis	9
	Sjogren syndrome	6
	Others (ANA positive denoted samples)	3
Anti-thyroglobulin antibodies (anti-Tg)	Autoimmune thyroiditis	5
Anti-ribonucleoprotein antibodies	Mixed connective tissue disease	1
Anti-GQ1b, anti-GM1, anti-GD1b	Autoimmune peripheral neuropathies	1
Anti-Acetyl-Choline Receptor antibodies and anti-muscle-specific tyrosine kinase	Myasthenia gravis	7

Table 11

Etiology	Diagnose	#
Peripheral neuropathies	Alcoholic/Alcoholism	1
	Diabetes	5
Other neurological diseases and differential diagnostic relevance	Amyotrophic lateral sclerosis	15
	Chagas disease	5
	Sarcoidosis	4
	Waldenstrom disease	4

Table 12

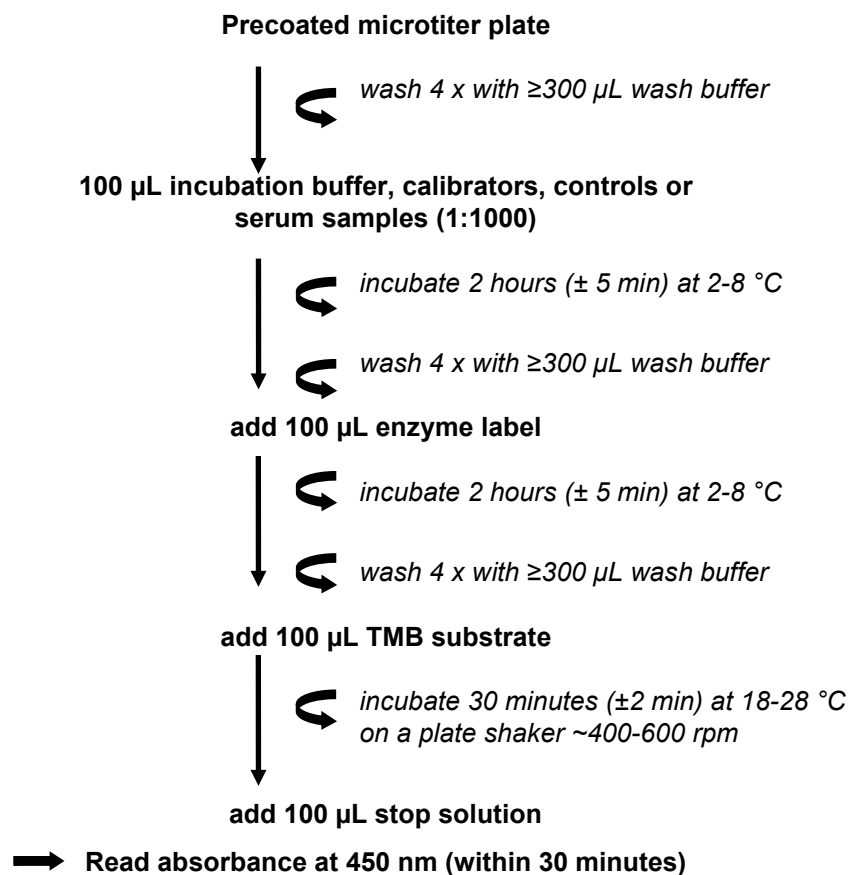
Clinical performance

Study	Positive controls	Negative controls	Cut-off	Sens.	Spec.
Kuijff et al., 2009	DPN +IgM MG (n = 68)	OPN + HC (n = 139)	1500 BTU	0.72	0.97
Mata et al., 2011	MGUS PN (n = 46)		3200 BTU	0.37	
Campagnolo et al., 2015	DPN +IgM MG (n = 20)	HDC + HC (n = 3)	1000 BTU	0.94	1.00
Stork et al., 2014	DPN +IgM MG (n = 26)		1000 BTU	0.69	
Stork et al., 2016	DPN +IgM MG (n = 83)	HC (n=83)	1000 BTU	0.59	1.00
Taams et al., 2018	MGUS PN (n = 101)		1500 BTU	0.51	
Liberatore et al., 2020		OPN + HC (n = 222)	7000 BTU		1.00

Table 13

DPN+IgM MG, Demyelinating Polyneuropathy with IgM monoclonal gammopathy; MGUS PN, Polyneuropathy associated with monoclonal gammopathy of unknown significance; OPN, other polyneuropathy; HC, healthy control; HDC, hematological diseased controls

anti-MAG Antibodies ELISA



TIME TO RESULT: 4.5 HOURS

REFERENCES

1. Blirup-Jensen, S., Johnson, A. M. & Larsen, M. Protein standardization V: Value transfer. A practical protocol for the assignment of serum protein values from a Reference Material to a Target Material. *Clin. Chem. Lab. Med.* **46**, 1470–1479 (2008).
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4. Matà, S. et al. IgM monoclonal gammopathy-associated neuropathies with different IgM specificity. *Eur. J. Neurol.* **18**, 1067–1073 (2011).
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8. Taams, N. E. et al. Clinical relevance of serum antibodies to GD1b in immune-mediated neuropathies. *J. Peripher. Nerv. Syst.* **23**, 227–234 (2018).
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10. Vallat, J-M. et al. The Wide Spectrum of Pathophysiologic Mechanisms of Paraproteinemic Neuropathy. *Neurology* **96**, 214-225 (2021).

CHANGELOG

Date	Version	Change
2023-05-31	A2	Change to the <i>Intended use</i> and product name Reworking of the <i>Principle of the assay</i> New in use stabilities of reagents Update to chapter <i>Warnings and Precautions</i> Revision of chapters <i>Specimen collection and storage</i> , <i>Assay Procedure</i> , <i>Standardization and metrological traceability</i> Reworking of chapters <i>Quality Control and Calculation of test results</i> Update to chapter <i>Limitations</i> Introduction of chapter <i>Result Interpretation and Clinical performance</i> Revision of chapters <i>Reference intervals and cut-off</i> , <i>Performance characteristics</i> , <i>Interfering substances</i> , <i>References</i> and <i>Symbols</i> Inclusion of notified body number to CE-mark – conformity assessment procedure according to IVDR 2017/746

INCIDENT REPORTING IN EU MEMBER STATES






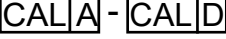
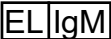



If any serious incident in relation to this device has occurred, please report without delay to the manufacturer and competent authority of your Member State.

SHIPPING DAMAGE

Please notify your distributor, if this product was received damaged.

SYMBOLS

BÜHLMANN use symbols and signs listed and described in ISO 15223-1. In addition, the following symbols and signs are used:

Symbol	Explanation
	Microtiter Plate
	Incubation Buffer
	Wash Buffer Concentrate (10x)
	Control Low
	Control High
	Calibrator A - D
	Enzyme Label IgM
	TMB Substrate
	Stop Solution
	<p>EN: electronic instruction for use available in different languages at:/ BG: електронни инструкции за употреба на различни езици на адрес:/ CS: elektronický návod k použití dostupný v různých jazycích na adrese:/ DA: elektronisk brugsanvisning på forskellige sprog på:/ DE: elektronische Gebrauchsanweisung in verschiedenen Sprachen verfügbar unter:/ EL: ηλεκτρονικές οδηγίες χρήσης διαθέσιμες σε διάφορες γλώσσες στη διεύθυνση:/ ES: instrucciones de uso electrónicas disponibles en diferentes idiomas en:/ ET: elektrooniline kasutusjuhend, mis on saadaval erinevates keeltes aadressil:/ FR: un mode d'emploi électronique disponible en différentes langues à l'adresse:/ HU: külfönbőző nyelveken elérhető elektronikus használati utasítás a következő címen:/ IT: istruzioni elettroniche per l'uso disponibili in diverse lingue su:/ LT: elektroninės naudojimo instrukcijos įvairiomis kalbomis:/ LV: dažādās valodās pieejama elektroniska lietošanas instrukcija:/ NO: elektronisk instruksjon for bruk tilgjengelig på forskjellige språk på:/ PL: elektroniczna instrukcja obsługi dostępna w różnych językach na stronie:/ PT: instrução electrónica para utilização disponível em diferentes línguas em:/ RO: instrucţiuni electronice de utilizare disponibile în diferite limbi la adresa:/ SK: elektronický návod na použitie dostupný v rôznych jazykoch na:/ SL: elektronska navodila za uporabo so na voljo v različnih jezikih na:/ SR: elektronsko uputstvo za upotrebu dostupno na različitim jezicima na:/ SV: elektronisk bruksanvisning på olika språk på följande adress:</p> <p>www.buhlmannlabs.ch/support/downloads/</p>