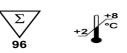
Instructions for use **GABA ELISA**



BA E-2500





For Research use only-Not for use in diagnostic procedures

GABA ELISA

1. Introduction

1.1 Intended use and principle of the test

Enzyme Immunoassay for the quantitative determination of Gamma-aminobutyric acid (GABA) in human plasma, serum and urine.

After extraction and derivatization Gamma-aminobutyric acid (GABA) is quantitatively determined by ELISA.

The competitive ELISA uses the microtiter plate format. The antigen is bound to the solid phase of the microtiter plate. The acylated analyte concentrations of the standards, controls and samples and the solid phase bound analyte compete for a fixed number of antiserum binding sites. When the system is in equilibrium, free antigen and free antigen-antibody complexes are removed by washing. The antibody bound to the solid phase is detected by an anti-rabbit IgG-peroxidase conjugate using TMB as a substrate. The reaction is monitored at 450 nm.

Quantification of unknown samples is achieved by comparing their absorbance with a standard curve prepared with known standards.

2. <u>Procedural cautions, guidelines, warnings and limitations</u>

2.1 Procedural cautions, guidelines and warnings

- (1) This kit is intended for professional use only. Users should have a thorough understanding of this protocol for the successful use of this kit. Only the test instruction provided with the kit is valid and has to be used to run the assay. Reliable performance will only be attained by strict and careful adherence to the instructions provided.
- (2) This assay was validated for a certain type of sample as indicated in *Intended Use* (please refer to Chapter 1). Any off-label use of this kit is in the responsibility of the user and the manufacturer cannot be held liable.
- (3) Reagents of this kit which contain human serum or plasma have been tested and confirmed negative for HIV I/II, HBsAg and HCV by approved procedures. All reagents, however, should be treated as potential biohazards in use and for disposal.
- (4) The principles of Good Laboratory Practice (GLP) have to be followed.
- (5) In order to reduce exposure to potentially harmful substances, wear lab coats, disposable protective gloves and protective glasses where necessary.
- (6) All kit reagents and specimens should be brought to room temperature and mixed gently but thoroughly before use. Avoid repeated freezing and thawing of reagents and specimens.
- (7) For dilution or reconstitution purposes, use deionized, distilled, or ultra-pure water.
- (8) The microplate contains snap-off strips. Unused wells must be stored at 2 °C to 8 °C in the sealed foil pouch with desiccant and used in the frame provided.
- (9) Duplicate determination of sample is highly recommended to be able to identify potential pipetting errors.
- (10) Once the test has been started, all steps should be completed without interruption. Make sure that the required reagents, materials and devices are prepared ready at the appropriate time.
- (11) Incubation times do influence the results. All wells should be handled in the same order and time intervals.
- (12) To avoid cross-contamination of reagents, use new disposable pipette tips for dispensing each reagent, sample, standard and control.
- (13) A standard curve must be established for each run.
- (14) The controls should be included in each run and fall within established confidence limits. The confidence limits are listed in the QC-Report provided with the kit.
- (15) Do not mix kit components with different lot numbers within a test and do not use reagents beyond expiry date as shown on the kit labels.
- (16) Avoid contact with Stop Solution containing 0.25 M H₂SO₄. It may cause skin irritation and burns. In case of contact with eyes or skin, rinse off immediately with water.
- (17) Some reagents contain sodium azide (NaN_3) as preservatives. In case of contact with eyes or skin, rinse off immediately with water. NaN_3 may react with lead and copper plumbing to form explosive metal azides. When disposing reagents, flush with a large volume of water to avoid azide build-up.
- (18) TMB substrate has an irritant effect on skin and mucosa. In case of possible contact, wash eyes with an abundant volume of water and skin with soap and abundant water. Wash contaminated objects before reusing them.
- (19) For information on hazardous substances included in the kit please refer to Material Safety Data Sheet (MSDS). The Material Safety Data Sheet for this product is made available directly on the website of the manufacturer or upon request.
- (20) The expected reference values reported in this test instruction are only indicative. It is recommended that each laboratory establishes its own reference intervals.

(21) Kit reagents must be regarded as hazardous waste and disposed of according to national regulations.

2.2 Limitations

Any inappropriate handling of samples or modification of this test might influence the results.

2.2.1 Interfering substances

Serum/Plasma

Samples containing precipitates or fibrin strands or which are haemolytic or lipemic might cause inaccurate results.

24-hour urine

Please note the sample preparation! If the percentage of the final concentration of acid is too high, the buffer capacity of the Diluent is insufficient. As a consequence GABA will not be extracted quantitatively.

2.2.2 Drug interferences

There are no known substances (drugs) which ingestion interferes with the measurement of GABA level in the sample.

2.2.3 High-Dose-Hook effect

No hook effect was observed in this test.

3. Storage and stability

Store the unopened reagents at 2 - 8 °C until expiration date. Do not use components beyond the expiry date indicated on the kit labels. Once opened the reagents are stable for 1 month when stored at 2 - 8 °C. Once the resealable pouch has been opened, care should be taken to close it tightly with desiccant again.

4. Materials

4.1 Contents of the kit

BA D-0090 Contents: Volume:	Foils Adhesive Foils ir 3 x 4 foils	Adhesive Foil - Ready to use a resealable pouch
BA D-0033	W 48	Macrotiter Plate - Ready to use
Contents:	2 x 48 well plate	e, empty in a resealable pouch
BA E-2442	EXTRACT-PLATE 48	Extraction Plate - Ready to use
Contents:	2 x 48 well plate	e, precoated with cation exchanger in a resealable pouch
BA E-0030	WASH-CONC 50x	Wash Buffer Concentrate - Concentrated 50x
Contents:	Buffer with a no	n-ionic detergent and physiological pH
Volume:	1 x 20 ml/vial, l	ight purple cap
BA E-0040	CONJUGATE	Enzyme Conjugate - Ready to use
Contents:	Goat anti-rabbit	immunoglobulins conjugated with peroxidase
Volume:	1 x 12 ml/vial, r	ed cap
BA E-0055	SUBSTRATE	Substrate - Ready to use
Contents:	Chromogenic su peroxide	bstrate containing tetramethylbenzidine, substrate buffer and hydrogen
Volume:	1 x 12 ml/black	vial, black cap
BA E-0080	STOP-SOLN	Stop Solution - Ready to use
Contents:	0.25 M sulfuric	acid
Volume:	1 x 12 ml/vial,	ight grey cap
BA E-2531	W GABA	GABA Microtiter Strips - Ready to use
Contents:	1 x 96 well (12x desiccant	8) antigen precoated microwell plate in a resealable foil pouch with

BA E-2510 AS GABA	GABA Antiserum - Ready to use
-------------------	-------------------------------

Contents:	Rabbit anti- GABA antibody, blue coloured
Volume:	1 x 6 ml/vial, blue cap

Standards and Controls - Ready to use

Stanuarus an		eauy to use	0	0	
Cat. no.	Component	Colour/Cap	Concentration ng/ml	Concentration nmol/l	Volume/ Vial
BA E-2501	STANDARD A	white	0	0	4 ml
BA E-2502	STANDARD B	light yellow	75	727	4 ml
BA E-2503	STANDARD C	orange	250	2 425	4 ml
BA E-2504	STANDARD D	dark blue	750	7 275	4 ml
BA E-2505	STANDARD E	light grey	2 500	24 250	4 ml
BA E-2506	STANDARD F	black	7 500	75 750	4 ml
BA E-2551	CONTROL 1	light green	Refer to QC-Report fo	r expected value and	4 ml
BA E-2552	CONTROL 2	dark red	acceptable range!		4 ml
Conversion:	GABA (ng/ml)	x 9.7 = GABA (r	nmol/l)		
Contents:	Acidic buffer v	vith non-mercury	preservative, spiked wi	th defined quantity of	GABA
BA E-2513	ASSAY-BUFF	Assay Buffe	r - Ready to use		
Contents:	Buffer with no	n-mercury prese	rvative		
Volume:	1 x 20 ml/vial	, yellow cap			
BA E-2428	EQUA-REAG	Equalizing F	Reagent - Lyophilized		
Contents:	Lyophilized pr	otein			
Volume:	1 vial, brown	сар			
BA E-2446	D-REAGENT	D-Reagent -	Ready to use		
Contents:	Crosslinking a	gent in dimethyls	sulfoxide		
Volume:	1 x 4 ml/vial,	1 x 4 ml/vial, white cap			
Hazards identification:		€			
	H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H332 Harmful if inhaled. H315 Causes skin irritation. H317 May cause an allergic skin reaction.				
BA E-2458	Q-BUFFER	Q-Buffer - R	eady to use		
Contents:	TRIS buffer				
Volume:	1 x 20 ml/vial	, white cap			
BA E-2561	I-BUFFER	I-Buffer - Ko	onzentriert		
Contents:	Buffer with non-ionic detergent and non-mercury preservative				
Volume:	1 x 4 ml/vial,	light red cap			
BA E-2541	ELUTION-BUFF	Elution-Buff	fer - Ready to use		
Contents:	Buffer with cit	ric acid			
Volume:	1 x 50 ml/vial	, dark green cap			
BA E-2560	DILUENT	Diluent - Re	ady to use		
Contents:	Buffer with ac	idic pH			
Volume:	2 x 20 ml/vial	, blue cap			
n: 11.0		Effective: 201	5-01-06		4

BA E-2787 NAOH

NaOH - Ready to use

Contents: Volume: Sodium hydroxide solution 1 x 2 ml/vial, purple cap

Hazards identification:



H314 Causes severe skin burns and eye damage.

*For the determination of serum and plasma, standards and controls should always be diluted 1:3 [e.g. 100 µl standard + 200 µl water (deionized, distilled, or ultra-pure)]. Do not forget to correct the result afterwards for the dilution. Urine values of GABA are higher than for serum and plasma. Dilution of the standards is to make sure sample is measured in linear part of standard curve.

4.2 Additional materials and equipment required but not provided in the kit

- Calibrated precision pipettes to dispense volumes between 10 400 µl; 1 ml; 10 ml
- Microtiter plate washing device (manual, semi-automated or automated)
- ELISA reader capable of reading absorbance at 450 nm and if possible 620 650 nm
- Microtiter plate shaker (shaking amplitude 3 mm; approx. 600 rpm)
- Vortex mixer
- Absorbent material (paper towel)
- Water (deionized, distilled, or ultra-pure)

5. <u>Sample collection and storage</u>

Plasma

Whole blood should be collected into centrifuge tubes containing EDTA as anti-coagulant (Monovette[™] or Vacuette[™] for plasma) and centrifuged at room temperature immediately after collection. Fasting specimens or pre-feed specimens for children (2 - 3 hours after last meal) are advised.

Haemolytic and especially lipemic samples should not be used for the assay.

Haemolytic and especially lipemic samples should not be used for the assay.

Storage: up to 24 hours at 2 - 8 °C, for longer period (up to 6 month) at -20 °C.

Repeated freezing and thawing should be avoided.

Serum

Collect blood by venipuncture (Monovette[™] or Vacuette[™] for serum), allow to clot, and separate serum by centrifugation at room temperature. Do not centrifuge before complete clotting has occurred. Patients receiving anticoagulant therapy may require increased clotting time.

Fasting specimens or pre-feed specimens for children (2 - 3 hours after last meal) are advised.

Haemolytic and especially lipemic samples should not be used for the assay.

Storage: up to 24 hours at 2 - 8 °C, for longer period (up to 6 month) at -20 °C.

Repeated freezing and thawing should be avoided.

Urine

Spontaneous urine or 24-hour urine, collected in a bottle containing 10 - 15 ml of 6 M HCl, can be used. If 24-hour urine is used please record the total volume of the collected urine. If the percentage of the final concentration of acid is too high, the buffer capacity of the Diluent is insufficient. As a consequence GABA will not be extracted quantitatively.

Storage: for longer periods (up to 6 month) at -20 °C.

Repeated freezing and thawing should be avoided. Avoid exposure to direct sunlight!

6. <u>Test procedure</u>

Allow all reagents and samples to reach room temperature and mix thoroughly by gentle inversion before use. Duplicate determinations are recommended.

The binding of the antisera and of the enzyme conjugate and the activity of the enzyme are temperature dependent, and the absorption values may vary if a thermostat is not used. The higher the temperature, the higher the absorption values will be. Varying incubation times will have similar influences on the absorbance. The optimal temperature during the Enzyme Immunoassay is between 20 - 25 °C.

 \triangle In case of overflow, read the absorbance of the solution in the wells within 10 minutes, using a microplate reader set to 405 nm

6.1 Preparation of reagents

Wash Buffer

Dilute the 20 ml Wash Buffer Concentrate with water (deionized, distilled, or ultra-pure) to a final volume of 1000 ml.

Storage: 1 month at 2 – 8 °C

Equalizing Reagent

Reconstitute the Equalizing Reagent with **10 ml** of **Assay Buffer**.

Reconstituted Equalizing Reagent which is not used immediately has to be stored in aliquots for max 1 month at -20 °C and may be thawed only once.

I-Buffer

Dilute the 4 ml I-Buffer Concentrate with water (deionized, distilled, or ultra-pure) to a final volume of 400 ml.

Storage: 1 month at 2 - 8 °C

D-Reagent

The D-Reagent has a freezing point of 18.5 °C. Make sure that the D-Reagent has reached room temperature and forms a homogeneous, crystal-free solution.

6.2 Preparation of samples

The GABA ELISA is a flexible test system for various biological sample types and samples. It is not possible to give a general advice how to prepare the samples. However, the following basics should help the researcher to fit the protocol to his specific needs:

 \triangle For the determination of samples in a **range between 25 – 2500 ng/ml**, standards and controls should always be **diluted 1:3** with water [e.g. 100 µl standard + 200 µl water (deionized, distilled, or ultrapure)]. This predilution of the standards has to be taken into account in the calculation of results. The standards are diluted to make sure that the samples fall into the linear part of the standard curve.

Do <u>not</u> dilute samples!

- A For the determination of samples in a range between 75 7 500 ng/ml, do <u>not</u> dilute standards, controls or samples.
 - Avoid excess of acid: excess of acid might exceed the buffer capacity of the dilution buffer. A pH of 3.0 during the extraction is mandatory.
 - It is advisable to perform a **Proof of Principle** to determine the recovery of GABA from the samples. Prepare a stock solution of GABA. Add small amounts (to change the native sample matrix as less as possible) of the stock solutions to the sample matrix and check the recovery.
 - The sample volume determines the sensitivity of this test. Determine the sample volume needed to determine GABA in your sample by testing different amounts of sample volumes.

If you need any support in establishing a protocol for your specific purposes, do not hesitate to contact the manufacturer directly!

6.3 Test procedure (75 – 7 500 ng/ml)

6.3.1 Extraction

- **1.** Pipette **100 μl** of the **standards, controls** and **samples** into the appropriate wells of the **Extraction Plate.**
- Add 100 μl of the Diluent to all wells. Cover plate with Adhesive Foil and incubate for 15 min at RT (20 25 °C) on a shaker (approx. 600 rpm).
- 3. Discard and blot dry by tapping the inverted plate on absorbent material. Wash each well with 500 µl of water (deionized, distilled, or ultra-pure) and incubate for 5 min at RT (20 25 °C) on a shaker (approx. 600 rpm).
- 4. Discard the wash and blot dry by tapping the inverted plate on absorbent material.
- **5.** Pipette **400 μl** of **Elution Buffer** into the appropriate wells of the **Extraction Plate.** Cover plate with **Adhesive Foil** and incubate for **10 min** at **RT** (20 25 °C) on a **shaker** (approx. 600 rpm).
- **6.** Use **100** µl for the subsequent **derivatization**!

6.3.2 Derivatization

- **1.** Pipette **100 μl** of the **extracted standards, controls** and **samples** into the appropriate wells of the **Macrotiter Plate.**
- 2. Pipette 10 µl of the NaOH into all wells.
- Add 50 μl of the Equalizing Reagent (fresh prepared before assay) to all wells and incubate for 1 min on a shaker (approx. 600 rpm).
- **4.** Pipette **10 μl** of the **D-Reagent** into all wells.
- 5. Cover plate with Adhesive Foil and incubate for 2 h at RT (20 25 °C) on a shaker (approx. 600 rpm).
- 6. Pipette 200 µl Q-Buffer into all wells.
- **7.** Shake for **10 min** at **RT** (20 25 °C) on a **shaker** (approx. 600 rpm).
- 8. Use 50 µl for the subsequent ELISA!

6.3.3 GABA ELISA

1.	Pipette 50 µl of the derivatized standards, controls and samples into the appropriate wells of the GABA Microtiter Strips.
2.	Pipette 50 μ I of the GABA Antiserum into all wells and mix shortly.
3.	Cover plate with Adhesive Foil and incubate for 15 - 20 h (overnight) at 2 - 8 °C.
	Alternatively incubate 2 h at RT (20 – 25 °C) on a shaker (approx. 600 rpm).
4.	Remove the foil. Discard or aspirate the content of the wells. Wash the plate 3 x by adding 300 µl of Wash Buffer, discarding the content and blotting dry each time by tapping the inverted plate on absorbent material.
5.	Pipette 100 µl of the Enzyme Conjugate into all wells.
6.	Incubate for 30 min at RT (20 – 25 °C) on a shaker (approx. 600 rpm).
7.	Discard or aspirate the content of the wells. Wash the plate 3 x by adding 300 µI of Wash Buffer , discarding the content and blotting dry each time by tapping the inverted plate on absorbent material.
8.	Pipette 100 μl of the Substrate into all wells and incubate for 20 - 30 min at RT (20 – 25 °C) on a shaker (approx. 600 rpm). <i>Avoid exposure to direct sunlight!</i>
9.	Add 100 µl of the Stop Solution to each well and shake the microtiter plate to ensure a homogeneous distribution of the solution.
10.	Read the absorbance of the solution in the wells within 10 minutes, using a microplate reader set to 450 nm (if available a reference wavelength between 620 nm and 650 nm is recommended).

6.4 Test procedure (25 – 2 500 ng/ml)

6.4.1 Extraction

1.	Pipette 300 µl of the diluted standards, controls and <u>undiluted</u> samples into the appropriate wells of the Extraction Plate.
2.	Add 300 µl of the Diluent to all wells. Cover plate with Adhesive Foil and incubate for 30 min at RT (20 – 25 °C) on a shaker (approx. 600 rpm).

3. Washing step (2 cycles):

Discard and blot dry by tapping the inverted plate on absorbent material. **Add 1ml** of **I-Buffer** to each well and incubate the plate for **5 min** at **RT** (20 – 25 °C) on a **shaker** (approx. 600 rpm).

Discard and blot dry by tapping the inverted plate on absorbent material. **Add 1ml** of **I-Buffer** to each well and incubate the plate for **5 min** at **RT** (20 – 25 °C) on a **shaker** (approx. 600 rpm).

- 4. Discard and blot dry by tapping the inverted plate on absorbent material.
- **5.** Pipette **250 μl** of **Elution Buffer** into the appropriate wells of the **Extraction Plate.** Cover plate with **Adhesive Foil** and incubate for **10 min** at **RT** (20 25 °C) on a **shaker** (approx. 600 rpm).
- 6. Use **100** µl for the subsequent **derivatization**!

6.4.2 Derivatization

- Pipette 100 μl of the extracted standards, controls and samples into the appropriate wells of the Macrotiter Plate.
 Pipette 10 μl of the NaOH into all wells.
 Add 50 μl of the Equalizing Reagent (fresh prepared before assay) to all wells and incubate for 1 min on a
- 3. Add 50 µl of the Equalizing Reagent (fresh prepared before assay) to all wells and incubate for 1 min on a shaker (600 rpm).
- 4. Pipette 10 µl of the **D-Reagent** into all wells.
- 5. Cover plate with Adhesive Foil and incubate for 2 h at RT (20 25 °C) on a shaker (approx. 600 rpm).
- 6. Pipette **150 µl Q-Buffer** into all wells.
- 7. Incubate for **10 min** at **RT** (20 25 °C) on a **shaker** (approx. 600 rpm).
- 8. Use 25 μ l for the subsequent ELISA!

6.4.3 GABA ELISA

1.	Pipette 25 µI of the derivatized standards, controls and samples into the appropriate wells of the GABA Microtiter Strips.
2.	Pipette 50 μ I of the GABA Antiserum into all wells and mix shortly.
3.	Cover plate with Adhesive Foil and incubate for 15 - 20 h (overnight) at 2 - 8 °C.
	Alternatively incubate 2 h at RT (20 – 25 °C) on a shaker (approx. 600 rpm).
4.	Remove the foil. Discard or aspirate the content of the wells. Wash the plate 3 x by adding 300 µl of Wash Buffer, discarding the content and blotting dry each time by tapping the inverted plate on absorbent material.
5.	Pipette 100 µl of the Enzyme Conjugate into all wells.
6.	Cover plate with Adhesive Foil. Incubate for 30 min at RT (20 – 25 °C) on a shaker (approx. 600 rpm).
7.	Remove the foil. Discard or aspirate the content of the wells. Wash the plate 3 x by adding 300 µl of Wash Buffer, discarding the content and blotting dry each time by tapping the inverted plate on absorbent material.
8.	Pipette 100 µl of the Substrate into all wells and incubate for 20 - 30 min at RT (20 – 25 °C) on a shaker (approx. 600 rpm). <i>Avoid exposure to direct sunlight</i> !
9.	Add 100 µl of the Stop Solution to each well and shake the microtiter plate to ensure a homogeneous distribution of the solution.
10.	Read the absorbance of the solution in the wells within 10 minutes, using a microplate reader set to 450 nm (if available a reference wavelength between 620 nm and 650 nm is recommended).

7. <u>Calculation of results</u>

Measuring range		GABA
	Urine	49 – 7 500 ng/ml
	Plasma/Serum	25 – 2 500 ng/ml

The standard curve is obtained by plotting the absorbance readings (calculate the mean absorbance) of the standards (linear, y-axis) against the corresponding standard concentrations (logarithmic, x-axis). Use non-linear regression for curve fitting (e.g. spline, 4- parameter, akima).

Serum/plasma

The read concentrations of **plasma samples** have to be **divided by 3**.

Urine samples and controls

The concentrations of the samples and controls can be read directly from the standard curve.

The total amount of GABA excreted in urine during 24 h is calculated as following: $\mu g/24h = \mu g/l \times l/24h$

Conversion

GABA (ng/ml) x 9.7 = GABA (nmol/l)

Expected reference value

It is strongly recommended that each laboratory should determine its own reference value.

In a study conducted with 358 apparently normal healthy adults between 18 and 65 years, using the GABA ELISA the following value is observed:

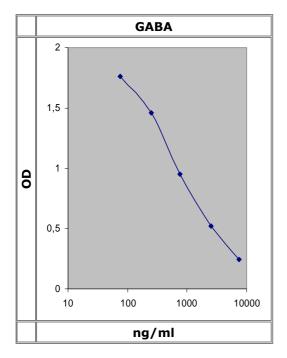
Expected Reference	Spontaneous urine	230 - 1 290 µg/g creatinine
Value	Spontaneous unne	250 - 1 250 µg/g creatinine

7.1 Quality control

It is recommended to use control samples according to national regulations. Use controls at both normal and pathological levels. The kit or other commercial controls should fall within established confidence limits. The confidence limits of the kit controls are indicated on the QC-Report.

7.2 Typical standard curve

Let Example, do not use for calculation!



8. Assay characteristics

Sensitivity	Urine (spontaneous)
(lower limit of detection)	49 ng/ml

Recovery	Mean (%) 104%	Range (%) 96 - 116%	% Recovery after spiking
Linearity	Range (ng/ml)	Range (%)	Mean (%)
	35 - 4048	74-119	93

Analytical Specificity	Substance	Cross Reactivity (%)
(Cross Reactivity)		GABA
	GABA	100
	ß-Alanine	1.6
	a-Aminobutyric acid	< 0.09
	Glycine	< 0.09
	L-Glutamine	< 0.09
	β-Aminobutyric acid	< 0.09

Precision									
Intra-Assay			Inter-Assay						
Sample	Range (ng/ml)	CV (%)	Sample	Range (ng/ml)	CV (%)				
1	318 ± 32	10	1	279 ± 35	12				
2	723 ± 94	13	2	661 ± 73	11				
3	2457 ± 110	4.9	3	1492 ± 117	7.8				

9. <u>References/Literature</u>

- (1) Shmais et al. Mechanism of nitrogen metabolism-related parameters and enzyme activities in the pathophysiology of autism. Journal of Neurodevelopmental Disorders 4(1):4 (2012)
- (2) El-Ansary et al. Relationship between chronic lead toxicity and plasma neurotransmitters in autistic patients from Saudi Arabia. Clinical Biochemistry, 44(23):1116-1120 (2011)
- (3) Lee et al. Astrocytes Are GABAergic Cells That Modulate Microglial Activity. Glia 59:152-165 (2011)

 \triangle For updated literature or any other information please contact your local supplier.

Symbols:								
	+2	Storage temperature	***	Manufacturer	Σ	Contains sufficient for <n> tests</n>		
	\sum	Expiry date	LOT	Batch code	IVD	For in-vitro diagnostic use only!		
	i	Consult instructions for use	CONT	Content	CE	CE labelled		
	Â	Caution	REF	Catalogue number	RUO	For research use only!		