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Electronic Instruction For Use: version

311_6

ORG 311 Alegria® Negative Control

INTENDED PURPOSE

Alegria® Negative Control is an ELISA based Alegria® Test Strip intended for quality control of the Alegria® system and Alegria® reagents. This product is an accessory and intended for professional use only.

SYMBOLS USED

IVD	In vitro diagnostic medical device
	Manufacturer
REF	Catalogue number
Σ 24	Sufficient for ... determinations
LOT	Batch code
	Use by
2°C 8°C	Temperature limitation
	Consult instructions for use
	Keep away from sunlight
	Do not reuse
	Date of manufacture
CE	CE marked according to 98/79/EC
311_6	

ALEGRIA TEST STRIPS	Alegria® Test Strips
WASH	Wash Buffer
SYSTEM FLUID	System Fluid
RTU	Ready to use

Electronic Instruction For Use: version

PRINCIPLE OF THE TEST

The Alegria® assay features barcoded 8-well-microstrips, called Alegria® Test Strips. Each strip is designed for a single determination. The Alegria® Test Strip holds a complete set of reagents.
Included are enzyme conjugate, enzyme substrate, sample buffer and a test specific control. Furthermore each strip has two antigen-coated wells which serve as reaction wells.
In the Alegria® Negative Control the Alegria® Test Strip holds a negative sample in the well which is otherwise used for sample buffer. **No patient sample is used in this assay!**
The determination is based on an indirect enzyme linked immune reaction with the following steps: Antibodies present in positive samples bind to the antigen coated on the surface of the two reaction wells forming an antibody antigen complex. After incubation, a first washing step removes unbound and unspecific bound molecules. Subsequently added enzyme conjugate binds to the immobilized antibody-antigen complex. After incubation, a second washing step removes unbound enzyme conjugate. Addition of enzyme substrate solution results in hydrolisation and color development during incubation. The intensity of the blue color correlates with the concentration of the antibody-antigen-complex and can be measured photometrically at 650 nm.
The Alegria® Test Strip is based on the proprietary SMC®-Technology (Sensotronic Memorized Calibration): information about the assay, analysis and evaluation, and the lot-specific expiry date is contained on the barcode printed on each Alegria® Test Strip.
The Alegria® Test Strip can be used with the diagnostic instrument Alegria® - a fully automated Random Access Analyser. By means of SMC®-Technology data encoded on the barcode are transferred from the Alegria® Test Strip to the instrument and the assay is automatically processed and evaluated. The instrument reads the date of expiry and rejects further processing if the Alegria® Test Strip is out of date.

WARNINGS AND PRECAUTIONS

- All reagents of this kit are intended for professional in vitro diagnostic use only.
- Components containing human serum were tested and found negative for HBsAg, HCV, HIV1 and HIV2 by FDA approved methods. No test can guarantee the absence of HBsAg, HCV, HIV1 or HIV2, and so all human serum based reagents in this kit must be handled as though capable of transmitting infection.
- Bovine serum albumin (BSA) used in components has been tested for BSE and found negative.
- Avoid contact with the substrate TMB (3,3´,5,5´-Tetramethyl-benzidine).
- System fluid contains acid, classifiaction is non-hazardous. Avoid contact with skin.
- Control, sample buffer and wash buffer contain sodium azide 0.09% as preservative. This concentration is classified as non-hazardous
- Enzyme conjugate, control and sample buffer contain ProClin 300 0.05% as preservative. This concentration is classified as non-hazardous.

During handling of all reagents, controls and serum samples observe the existing regulations for laboratory safety regulations and good laboratory practice:

- First aid measures: In case of skin contact, immediately wash thoroughly with water and soap. Remove contaminated clothing and shoes and wash before reuse. If system fluid comes into contact with skin, wash thoroughly with water. After contact with the eyes carefully rinse the opened eye with running water for at least 10 minutes. Get medical attention if necessary.
- Personal precautions, protective equipment and emergency procedures:

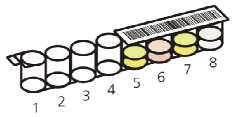
Observe laboratory safety regulations. Avoid contact with skin and eyes. Do not swallow. Do not pipette by mouth. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled. When spilled, absorb with an inert material and put the spilled material in an appropriate waste disposal.

- Exposure controls / personal protection: Wear protective gloves of nitril rubber or natural latex. Wear protective glasses. Used according to intended use no dangerous reactions known.
- Conditions to avoid: Since substrate solution is light-sensitive. Store Alegria® strips in the dark.
- For disposal of laboratory waste the national or regional legislation has to be observed.

Observe the guidelines for performing quality control in medical laboratories by assaying controls and/or pooled sera.

CONTENTS OF THE KIT

Σ 24 ORG 311		Sufficient for 24 determinations
ALEGRIA TEST STRIPS	24	Alegria® Test Strips are modules of 8 wells each composed of: Wells 1 + 2: empty and not coated (wells for the sample dilution) Wells 3 + 4: coated with antigen (reaction wells) Well 5: Control; yellow; containing test specific antibodies, PBS, BSA, detergent; preservative sodium azide 0.09% and ProClin 300 0.05%. Well 6: Enzyme Conjugate; light red; containing anti-human IgG antibodies, HRP labelled; PBS, BSA, detergent, preservative ProClin 300 0.05%.. Well 7: **Negative Control**: yellow; containing PBS, BSA, detergent, preservative sodium azide 0.09% and ProClin 300 0.05%. Well 8: TMB Substrate: clear; containing 3,3', 5,5'- Tetramethylbenzidin. Reaction wells are coated with test specific antigen. Code on barcode: ***Neg Contrl*** on printout: ***CntrNeg***
WASH	1x 20 ml	Wash Buffer, containing Tris, detergent, preservative sodium azide 0.09%; 50 x conc.
SYSTEM FLUID	1x 2.5 ml	System Fluid, contains acid; 1000 x concentrate
	1	Certificate of Analysis



STORAGE AND STABILITY

- Store test kit at 2-8°C in the dark.
- Do not expose reagents to heat, sun, or strong light during storage and usage.
- Store Alegria® Test Strips sealed and dessicated in the clip bag provided.
- Shelf life of the unopended test kit is 15 months from day of production.
  Unopened reagents are stable until expiration of the kit. See labels for individual batch.
- Diluted Wash Buffer and System Fluid are stable for at least 30 days when stored at 2-8°C.
  Once transferred to the reagent container we recommend consumption on the same day.

MATERIALS REQUIRED

- Measuring cylinder for 1000 ml and 2500 ml
- Distilled or deionized water

SPECIMEN COLLECTION, STORAGE AND HANDLING

not applicable

PROCEDURAL NOTES

- Do not use kit components beyond their expiration dates.
- All materials must be at room temperature (20-28°C) prior to use.

PREPARATION OF REAGENTS

WASH

Dilute the content of the Wash Buffer concentrate (50x) with distilled or deionized water to a final volume of 1000 ml prior to use. Transfer the diluted Wash Buffer into the instrument reagent container. If only one Alegria run is to be performed on one day we recommend transferring only 500 ml diluted Wash Buffer.

SYSTEM FLUID

Dilute the content of the System Fluid concentrate (1000x) with distilled or deionized water to a final volume of 2500 ml prior to use. Transfer the diluted System Fluid into the instrument reagent container.

ALEGRIA TEST STRIPS

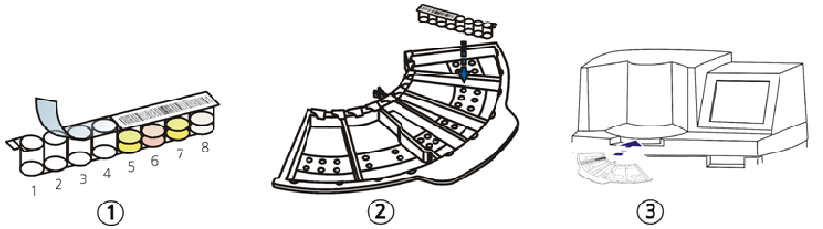
Take the required number of Alegria® Test Strips out of the clip bag and let them reach room temperature (20-28° C). Do not remove foil covering the empty wells until you are ready to start the assay.

TEST PROCEDURE

Alegria® Test Strips with SMC® technology are used with the diagnostic instrument Alegria®.

Detailed information about operating the instrument can be taken from the Instrument User Manual.

(1) Remove the foil from the empty wells 1 to 4 of the Alegria® Test Strip.
Do not remove foil with printed barcode, covering wells 5 to 8. Well 1: leave empty
(2) Insert the strip into the SysTray.
(3) Place loaded SysTrays into the correct position in the Alegria® instrument and start run. All further steps will be done automatically. The test run is completed when the instrument starts printing the results.



CALIBRATION

This assay system is calibrated in relative arbitrary units, since no international reference preparation is available for this assay.

CALCULATION OF RESULTS

By means of SMC® Technology (Sensotronic Memorized Calibration), all test data are transferred to the system through individual barcodes on the Alegria® Test Strip. Calculation and interpretation of results will be performed automatically.

PERFORMANCE CHARACTERISTICS

Measuring range: not applicable

Expected values: Target value and expected range are stated on the certificate of analysis.

Linearity: not applicable

Detection Limit: not applicable

Reproducibility

The intra-assay precision: the variation of coefficient (% CV) has been calculation from results of 12 Alegria® Test Strips ORG 311 analyzed on one Alegria® instrument.
Inter-assay precision: the variation of coefficient (% CV) has been calculation from results of 12 Alegria® Test Strips ORG 311 analyzed on 7 Alegria® instruments.
The Certificate of Analysis that shows the batch specific target value and its acceptance range.

Intra-Assay		
	Mean U/ml	% CV
	U/ml	
ORG 311	0.5	5.7

Inter-Assay		
	Mean U/ml	% CV
	U/ml	
ORG 311	0.5	7.9

Interfering substances: not applicable

LIMITATIONS OF THE PROCEDURE

This assay is an accessory for the Alegria® system. The control is used for checking correct function of the Alegria® analyzer. It is recommended that each laboratory establishes its own ranges according to ISO 15189:2007 Requirements for quality and competence particular to medical laboratories or other applicable laboratory

guidelines.

Notice to the user (European Union):
Any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the EU Member State in which the user and/or the patient is established .

Change Control
Former version: *ORG 311_IFU_EN_QM113128_2014-06-26_5* Reason for revision: *Introduction electronic IFU on homepage*