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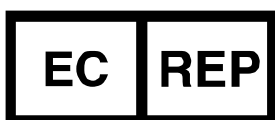
For Professional Use Only

AmpliSens[®] *Streptococcus agalactiae*- screen-titre-FRT

PCR kit

Instruction Manual

AmpliSens[®]



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1. INTENDED USE

AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT PCR kit

AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT PCR kit is an *in vitro* nucleic acid amplification test for detection and quantitative analysis of *Streptococcus agalactiae* DNA in the clinical material (blood plasma, cerebrospinal fluid (CSF), oropharyngeal swabs, epithelial swabs of lateral vaginal walls, anorectal swabs) using the polymerase chain reaction (PCR) with real-time fluorescence hybridization detection.



The results of PCR analysis are taken into account in complex diagnostics of disease¹.

2. PRINCIPLE OF PCR DETECTION

Streptococcus agalactiae DNA detection by the polymerase chain reaction (PCR) is based on the amplification of the pathogen genome specific region using specific *Streptococcus agalactiae* primers. In the real-time PCR, the amplified product is detected with the use of the fluorescent dyes. These dyes are linked to oligonucleotide probes, which bind specifically to the amplified product during thermocycling. The real-time monitoring of fluorescence intensities during the real-time PCR allows the detection of accumulating product without re-opening the reaction tubes after the PCR run.

The DNA extraction of cell-free biological material (blood plasma, CSF) is conducted with the aid of the **Internal Control STI-87 (IC)**. It must be used in the extraction procedure in order to control the extraction process of each individual sample. During the DNA extraction of cell containing clinical material, the DNA of the human genome (Endogenous Internal Control) is being amplified. The Endogenous Internal Control (**IC Glob**) allows not only to control the test stages (DNA extraction and PCR amplification) but also to assess the adequacy of sampling and storage of clinical material.

AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT PCR kit uses “hot-start”, which greatly reduces the frequency of non-specifically primed reactions. “Hot-start” is guaranteed by the separation of nucleotides and Taq-polymerase using chemically modified polymerase (TaqF). The chemically modified polymerase (TaqF) is activated by heating at 95 °C for 15 min.

¹ In compliance with EU Directive 98/79/EC

3. CONTENTS

AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT PCR kit is produced in 1 form:

AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT PCR kit variant FRT-100 F,

REF R-B77-100-FT(RG,iQ)-CE

AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT PCR kit variant **FRT-100 F**

includes:

<i>Reagent</i>		<i>Description</i>	<i>Volume, ml</i>	<i>Quantity</i>
PCR-mix-1-FL <i>Streptococcus agalactiae</i>		colourless clear liquid	1.2	1 tube
PCR-mix-2-FRT		colourless clear liquid	0.6	1 tube
Polymerase (TaqF)		colourless clear liquid	0.06	1 tube
TE-buffer		colourless clear liquid	0.5	1 tube
DNA calibrators	K1 SAG	colourless clear liquid	0.2	1 tube
	K2 SAG	colourless clear liquid	0.2	1 tube
Positive Control DNA <i>Streptococcus agalactiae</i> and human DNA*		colourless clear liquid	0.1	1 tube
Negative Control (C-)**		colourless clear liquid	1.2	2 tubes
Internal Control STI-87 (IC)***		colourless clear liquid	0.6	2 tubes

* must be used in the extraction procedure as Positive Control of Extraction (see RIBO-prep **REF** K2-9-Et-100-CE protocol).

** must be used in the extraction procedure as Negative Control of Extraction.

*** add 10 µl of Internal Control during the DNA extraction procedure directly to the sample/lysis mixture (see RIBO-prep, **REF** K2-9-Et-50-CE protocol).

AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT PCR kit is intended for 110 reactions (including controls and calibrators).

4. ADDITIONAL REQUIREMENTS

- DNA extraction kit or DNA extraction automatic station.
- Disposable powder-free gloves and a laboratory coat.
- Pipettes (adjustable).
- Sterile RNase-free pipette tips with aerosol filters (up to 200 µl).
- Tube racks.

- Vortex mixer.
- Desktop centrifuge with a rotor for 2-ml reaction tubes.
- PCR box.
- Real-time instruments (for example, Rotor-Gene 3000/6000 (Corbett Research, Australia); Rotor-Gene Q (QIAGEN, Germany) iCycler iQ5 (Bio-Rad, USA))
- Disposable polypropylene PCR tubes:
 - a) 0.2-ml PCR tubes with optical transparent domed or flat caps if a plate-type instrument is used;
 - b) 0.2-ml PCR tubes with flat caps or strips of four 0.1-ml Rotor-Gene PCR tubes if a rotor-type instrument is used.
- Refrigerator with the temperature range from 2 to 8 °C.
- Deep-freezer with the temperature range from minus 24 to minus 16 °C.
- Reservoir for used tips.

5. GENERAL PRECAUTIONS

The user should always pay attention to the following:

- Use sterile pipette tips with aerosol barriers and use a new tip for every procedure.
- Store all extracted positive material (specimens, controls and amplicons) away from all other reagents and add it to the reaction mix in a distantly separated facility.
- Thaw all components thoroughly at room temperature before starting an assay.
- When thawed, mix the components and centrifuge briefly.
- Use protective gloves and laboratory cloths, and protect eyes while samples and reagents handling. Thoroughly wash hands afterwards.
- Do not eat, drink, smoke, apply cosmetics, or handle contact lenses in laboratory work areas.
- Do not use a kit after its expiration date.
- Dispose of all specimens and unused reagents in accordance with local regulations.
- Samples should be considered potentially infectious and handled in biological cabinet in compliance with appropriate biosafety practices.
- Clean and disinfect all specimens or reagents spills using a disinfectant, such as 0.5 % sodium hypochlorite or another suitable disinfectant.
- Avoid specimens and reagents contact with the skin, eyes, and mucous membranes. If these solutions come into contact, rinse the injured area immediately with water and seek medical advice immediately.

- Material Safety Data Sheets (MSDS) are available on request.
- Use of this product should be limited to personnel trained in DNA amplification techniques.
- Workflow in the laboratory must be one-directional, beginning in the Extraction Area and moving to the Amplification and Detection Area. Do not return samples, equipment and reagents in the area where the previous step was performed.



Some components of this kit contain sodium azide as a preservative. Do not use metal tubing for reagent transfer.

6. SAMPLING AND HANDLING



Obtaining samples of biological materials for PCR-analysis, transportation, and storage are described in the *manufacturer's handbook* [1]. It is recommended that this handbook is read before starting work.

AmpliSens® Streptococcus agalactiae-screen-titre-FRT PCR kit is intended for analysis of the DNA extracted with DNA extraction kits from the clinical material (blood plasma, cerebrospinal fluid (CSF), oropharyngeal swabs, epithelial swabs of lateral vaginal walls, anorectal swabs)).

Pre-treatment

6.1 *Blood plasma* – tubes filled with whole blood are placed into the centrifuge at **800 g** for **10 min** at room temperature. Collect at least 1 ml of blood plasma from each sample with individual pipette tips with aerosol filters, and transfer the plasma into sterile 1.5-2.0 ml tubes. Centrifuge the tubes containing 1 ml of blood plasma for further 10-20 min at 11,000 rpm. For extraction use the sediment and 100 µl of over-sedimentary liquid.

7. WORKING CONDITIONS

AmpliSens® Streptococcus agalactiae-screen-titre-FRT PCR kit should be used at 18–25 °C.

8. PROTOCOL

8.1. DNA extraction

It is recommended to use the following nucleic acid extraction kits:

- RIBO-prep, **REF** K2-9-Et-50-CE;
- NucliSENS easyMAG automated system (for details see **Guidelines** [2]).

DNA extraction from each clinical material sample is conducted in the presence of the **Internal Control STI-87 (IC)** (add **10 µl** of **Internal Control STI-87 (IC)** to each tube). Add

100 µl of Negative Control (C–) to the tube labelled **Negative Control (C–)**. Add **90 µl of Negative Control (C–)** and **10 µl of Positive Control DNA *Streptococcus agalactiae* and human DNA** to the tube labelled **Positive Control of Extraction (PCE)**.



Extract the DNA according to the manufacturer's protocol.



In case of extracting DNA using NucliSENS easyMAG (bioMérieux, France) automatic station, please, consult the **AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT** PCR kit **Guidelines** [2] for information about the procedure.

8.2. Preparing PCR

8.2.1 Preparing tubes for PCR

The total reaction volume is **25 µl**, the volume of the **DNA** sample is **10 µl**.



Tube selection depends on the thermocycler with “real-time” detection system being used.

1. Prior to the experiment prepare a mix of **PCR-mix-2-FRT** and **Polymerase (TaqF)**. Transfer the **Polymerase (TaqF)** tube contents (**60 µl**) to the **PCR-mix-2-FRT** tube (**600 µl**) and gently vortex avoiding the formation of foam.



Prepared mix is intended for 120 samples. Store the samples at a temperature range of 2 to 8 °C for 3 months, to be used upon the need. If the prepared mix cannot be consumed in the course of 3 months, then prepare the mix for smaller number of reactions, for example, add 150 µl of PCR-mix-2-FRT and 15 µl of Polymerase (TaqF) (prepared mix is intended for 30 reactions)

2. Prepare the reaction mix. Take into account that in order to test one DNA sample in qualitative format, two controls of PCR amplification must be set up – Positive Control (**K2 SAG** DNA calibrator) and Negative Control (**TE-buffer**); and in quantitative format, five controls of PCR amplification must be set up: two DNA calibrators (**K1 SAG** and **K2 SAG**) with two repeats and Negative Control of PCR (**TE-buffer**). It is necessary to take reagents in reserve and calculate the volumes including 1 extra reaction.
3. In a separate tube mix **PCR-mix-1-FL *Streptococcus agalactiae*** with the previously prepared mix of **PCR-mix-2-FRT** and **Polymerase (TaqF)**. Calculation is based on the fact that each PCR loading includes:
 - **10 µl of PCR-mix-1-FL *Streptococcus agalactiae***
 - **5 µl of PCR-mix-2-FRT and Polymerase (TaqF) mix**

To make calculations for the required number of reactions, including testing of analyzed and control samples, consult Table 1 of the *Instruction manual*.

Table 1

Scheme of reaction mixture preparation for variant FRT-100 F

Reagent volume for specified number of reactions			
Reagent volume per one reaction, µl		10,0	5,0
Number of clinical samples		PCR-mix-1-FRT <i>Streptococcus agalactiae</i> ²	Mix of PCR-mix-2-FRT and Polymerase (TaqF) ²
for qualitative analysis	for quantitative analysis		
1	4	70	35
2	5	80	40
3	6	90	45
4	7	100	50
5	8	110	55
6	9	120	60
7	10	130	65
8	11	140	70
9	12	150	75
10	13	160	80
11	14	170	85
12	15	180	90
13	16	190	95
14	17	200	100
15	18	210	105
16	19	220	110
17	20	230	115
18	21	240	120
19	22	250	125
20	23	260	130
21	24	270	135
22	25	280	140
23	26	290	145
24	27	300	150
25	28	310	155
30	33	360	180



In simultaneous analysis of 120 samples, a simplified mix preparation scheme can be used: transfer all contents from one **PCR-mix-2-FRT** tube and all contents from one **Polymerase (TaqF)** tube to the **PCR-mix-1-FL *Streptococcus agalactiae*** tube.

4. Select the required number of tubes for amplification of the analyzed and control DNA samples.

² Values are given including the reserve (volume calculation for 1 extra reaction) and including five controls (2 DNA calibrators K1 SAG and K2 SAG (both repeated) for quantitative analysis of *Streptococcus agalactiae* DNA and two controls (positive and negative controls) for qualitative analysis of *Streptococcus agalactiae* DNA.

- Add **15 µl** of the reaction mix to each tube.



Pipette tips with aerosol filters are used for transfer of DNA and control samples.

- Add **10 µl** of the analyzed DNA, obtained by the extraction from clinical and control samples, to the reaction mix tubes.

- Carry out the control amplification reactions:

For qualitative analysis:

NCA - Add **10 µl** of **TE-buffer** to the tube labelled NCA.

C+ - Add **10 µl** of **K2 SAG DNA calibrator** to the tube labelled C+

For quantitative analysis:

NCA - Add **10 µl** of **TE-buffer** to the tube labelled NCA.

K1 SAG - Add **10 µl** of **K1 SAG DNA calibrator** to two tubes

K2 SAG - Add **10 µl** of **K2 SAG DNA calibrator** to two tubes

8.2.2. Amplification

- Create a temperature profile on your instrument as follows:

Table 2

“AmpliSens 1” amplification program

Step	Rotor-type instruments ³			Plate-type instruments ⁴		
	Temperature, °C	Time	Cycles	Temperature, °C	Time	Cycles
1	95	15 min	1	95	15 min	1
2	95	5 s	5	95	5 s	5
	60	20 s		60	20 s	
	72	15 s		72	15 s	
3	95	5 s	40	95	5 s	40
	60	20 s Fluorescence detection		60	30 s Fluorescence detection	
	72	15 s		72	15 s	

- Adjust the fluorescence channel sensitivity according to the *Important Product Information Bulletin* and Guidelines [2].
- Insert tubes into the reaction module of the device.
- Run the amplification program with fluorescence detection.
- Analyse and interpret results after the amplification program is completed.

³ For example, Rotor-Gene 3000/Rotor-Gene 6000 (Corbett Research, Australia)

⁴ For example, iCycler iQ, iQ5 (Bio-Rad, USA), Mx3000P (Stratagene, USA).

9. DATA ANALYSIS

Analysis of results is performed by the software of the real-time PCR instrument used by measuring fluorescence signal accumulation in three channels:

- Channel for the **FAM** fluorophore registers the signal testifying the accumulation of the β -globin gene DNA (**IC Glob**) amplification product
- Channel for the **JOE** fluorophore registers the signal testifying the accumulation of ***Streptococcus agalactiae*** DNA amplification product.
- Channel for **ROX** fluorophore registers a signal testifying the accumulation of amplification product of **Internal Control STI-87 (IC)** DNA.

Upon DNA extraction from oropharyngeal swabs, epithelial swabs of lateral vaginal walls, anorectal swabs, results for two channels are considered: the channel for the **FAM** fluorophore registers a signal testifying the accumulation of amplification product for the β -globin gene DNA (**IC Glob**), and the channel for the **JOE** fluorophore - ***Streptococcus agalactiae*** DNA.

Upon DNA extraction from blood plasma and cerebrospinal fluid (CSF), results for two channels are considered: the channel for the **JOE** fluorophore - ***Streptococcus agalactiae*** DNA, the channel for the **ROX** fluorophore registers the signal testifying the accumulation of amplification product of the **Internal Control STI-87 (IC)** DNA.

Results are interpreted by the presence (or absence) of an intercept between the fluorescence curve and the threshold line set at the specific level that corresponds to the presence (or absence) of a *Ct* value of the DNA sample in the corresponding column of the results table.

Principle of interpretation of results for the DNA extraction from blood plasma and cerebrospinal fluid (CSF) is the following:

- *Streptococcus agalactiae* DNA is **detected** if the *Ct* value determined in the results table in the channel for the **JOE** fluorophore is less than the boundary *Ct* value specified in the *Important Product Information Bulletin*. Moreover, the fluorescence curve of the sample should intercept the threshold line in the area of characteristic exponential increase of fluorescence intensity.
- *Streptococcus agalactiae* DNA is **not detected** in a sample if the *Ct* value is not determined (absent) in the channel for **JOE** fluorophore (fluorescence curve does not intercept the threshold line), and in the results table for the channel for the **ROX** fluorophore the *Ct* value is determined as less than the boundary *Ct* value specified

in the *Important Product Information Bulletin*.

- The result is **invalid** if the *Ct* value is not determined (absent) for the given sample in the channel for **JOE** fluorophore, whereas the *Ct* value in the channel for the **ROX** fluorophore is not determined (absent) or is greater than the specified boundary *Ct* value. In such cases, the PCR analysis should be repeated for the corresponding clinical sample.
- For the clinical samples in which the *Ct* values in the channel for the **JOE** fluorophore are determined as greater than the boundary *Ct* value specified in the *Important Product Information Bulletin* the results are considered **equivocal**. In such cases, the PCR analysis should be repeated for the given sample with two repeats. In case of obtaining a reproducible positive *Ct* value, the result is interpreted as positive. If the results obtained are not reproducible, the result is interpreted as **equivocal**.



Boundary *Ct* values are specified in the *Important Product Information Bulletin* enclosed to the PCR kit. See also Guidelines [2]

The result of the analysis is considered reliable only if the results obtained for Positive and Negative Controls of extraction and of amplification are correct (see Table 3). For quantitative analysis the results for Positive Control of Extraction (PCE) must be within the concentrations range outline in the *Important Product Information Bulletin* enclosed to the PCR kit.

Results for controls of different stages of PCR analysis for DNA extraction from blood plasma and cerebrospinal fluid (CSF)

Control	Stage for control	Amplification results in the channel for fluorophore			
		JOE		ROX	
		Qualitative format	Quantitative format	Qualitative format	Quantitative format
C-	DNA extraction	Absent	Absent	< boundary value	< boundary value
PCE	DNA extraction	< boundary value	Obtained value is within the range defined in the <i>Important Product Information Bulletin</i>	< boundary value	< boundary value
NCA	PCR	Absent	Absent	Absent	Absent
C+	PCR	<boundary value	–	<boundary value	–
K1 SAG K2 SAG	PCR	–	Ct value and calculated concentrations are defined	–	Ct value and calculated concentrations are defined

Principle of interpretation of results for the DNA extraction from oropharyngeal swabs, epithelial swabs of lateral vaginal walls, anorectal swabs is the following:

- *Streptococcus agalactiae* DNA is **detected** if the Ct value determined in the results table in the channel for the **JOE** fluorophore is less than the boundary Ct value specified in the *Important Product Information Bulletin*. Moreover, the fluorescence curve of the given sample must intercept the threshold line in the area of characteristic exponential increase of fluorescence intensity.
- *Streptococcus agalactiae* DNA is **not detected** in a sample if the Ct value is not determined (absent) in the channel for **JOE** fluorophore (fluorescence curve does not intercept the threshold line), and in the results table for the channel for the **FAM** fluorophore for qualitative format the Ct value is determined as less than the boundary Ct value specified in the *Important Product Information Bulletin*, for quantitative format – the number of human genome equivalents (**IC Glob**) for the reaction is above **500**.
- The result is **invalid** if the Ct value is not determined (absent) for the given sample in the channel for **JOE** fluorophore, and in the channel for the **FAM** fluorophore for qualitative format the Ct value is greater than the boundary Ct value specified in the *Important Product Information Bulletin*, and for quantitative format – the number of

human genome equivalents (**IC Glob**) for the reaction is above **500**. In such cases, the PCR analysis should be repeated for the corresponding clinical sample starting from the DNA extraction stage.

- For the clinical samples in which the *Ct* values in the channel for the **JOE** fluorophore are determined as greater than the boundary *Ct* value specified in the *Important Product Information Bulletin* the results are considered **equivocal**. In such cases, the PCR analysis should be repeated for the given sample with two repeats. In case of obtaining the reproducible positive *Ct* value, the result is interpreted as positive. If the results obtained are not reproducible, the result is interpreted as **equivocal**.

The result of the analysis is considered reliable only if the results obtained for Positive and Negative Controls of extraction and of amplification are correct (see Table 4). For quantitative analysis the results for Positive Control of Extraction (PCE) must be within the concentrations range outline in the *Important Product Information Bulletin* enclosed to the PCR kit.

Table 4

Results for controls of different stages of PCR analysis for DNA extraction from oropharyngeal swabs, epithelial swabs of lateral vaginal walls, anorectal swabs

Control	Stage for control	Amplification results in the channel for fluorophore			
		JOE		ROX	
		Qualitative format	Quantitative format	Qualitative format	Quantitative format
C-	DNA extraction	Absent	Absent	Absent	Absent
PCE	DNA extraction	< boundary value	Obtained value is within the range defined in the <i>Important Product Information Bulletin</i>	< boundary value	< boundary value
NCA	PCR	Absent	Absent	Absent	Absent
C+	PCR	<boundary value	–	<boundary value	–
K1 SAG K2 SAG	PCR	–	<i>Ct</i> value and calculated concentration are defined	–	<i>Ct</i> value and calculated concentration are defined

For quantitative analysis the calculation of *Streptococcus agalactiae* DNA concentration in one ml of the sample upon extraction from 100 ml should use the following formula:

Calculated *Streptococcus agalactiae* DNA concentration x 100 = copies/ml.

10. TROUBLESHOOTING

Results of analysis are not taken into account in the following cases:

1. If the result for a sample is invalid, PCR analysis needs to be repeated for the corresponding clinical sample.
2. If the positive signal is absent in the DNA calibrators, it may suggest that the amplification program is chosen wrongly and that other mistakes were made at the loading of PCR stage. In such case, repeat the PCR analysis for all samples.
3. If in the Negative Control of Extraction (C-) in the channel for the **FAM** and/or **JOE** fluorophores or in the Negative Control of Amplification (NCA) in the channels for the **FAM** and/or **JOE** and/or **ROX** fluorophores, the positive signal is detected, then the reagents and the samples must have been contaminated. In this case, repeat the analysis of the positive probes starting with the extraction stage, and undertake the necessary actions to identify the source of contamination.
4. If for the tested sample a positive signal is detected, but the fluorescence curve is missing the region of characteristic exponential increase (the curve represents a more of a straight line), that may suggest that the threshold level or the basal line calculation parameters were incorrectly set up. Such result should not be interpreted as positive. If the result is obtained with the correctly set threshold level, it is necessary to repeat the PCR analysis for that sample.

If you have any further questions or if you encounter problems, please contact our Authorized representative in the European Community.

11. TRANSPORTATION

AmpliSens[®] Streptococcus agalactiae-screen-titre-FRT PCR kit should be transported at 2–8 °C for no longer than 5 days.

12. STABILITY AND STORAGE

All components of the **AmpliSens[®] Streptococcus agalactiae-screen-titre-FRT** PCR kit are to be stored at 2–8°C when not in use. All components of the **AmpliSens[®] Streptococcus agalactiae-screen-titre-FRT** PCR kit are stable until the expiry date stated on the label. The shelf life of reagents before and after the first use is the same, unless otherwise stated.



PCR-mix-1-FL *Streptococcus agalactiae*
PCR-mix-2-FRT, and polymerase (TaqF) are to be stored at the temperature

range from minus 24 to minus 16°C



PCR-mix-1-FL *Streptococcus agalactiae* is to be kept away from light

13. SPECIFICATIONS

13.1. Sensitivity

Clinical material	DNA extraction kit	Amplification and detection kit	Analytical sensitivity, copies/ml	Linear measuring range, copies/ml
Blood plasma, cerebrospinal fluid (CSF), oropharyngeal swabs, epithelial swabs of lateral vaginal walls, anorectal swabs	RIBO-prep	PCR kit variant FRT-100 F	3x10 ²	1000-10,000,000

13.2. Specificity

The analytical specificity of **AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT** PCR kit is ensured by the selection of specific primers and probes as well as stringent reaction conditions. The primers and probes have been checked for possible homologies to all sequences published in gene banks by sequence comparison analysis.

The reagents kit detects a fragment of *Streptococcus agalactiae* DNA. The specific activity of the reagents kit was confirmed by the analysis of *Streptococcus agalactiae* bacterial strains, and also by the analysis of clinical material with the followed confirmation of results using the methods of sequencing the amplification fragments.

The absence of kit components activity is shown with respect to the DNA of other bacterial pathogens (*Streptococcus pyogenes*, *Staphylococcus aureus*, *Neisseria meningitidis*, *Haemophilus parainfluenzae*, *Listeria monocitogenes*, *Klebsiella pneumonia*, etc.).

The clinical specificity of **AmpliSens® *Streptococcus agalactiae*-screen-titre-FRT** PCR kit was confirmed in laboratory clinical trials.














14. REFERENCES

1. Handbook “Sampling, Transportation, and Storage of Clinical Material for PCR diagnostics”, developed by Federal Budget Institute of Science “Central Research Institute for Epidemiology” of Federal Service for Surveillance on Consumers’ Rights Protection and Human Well-Being, Moscow, 2010.
2. Guidelines to the **AmpliSens® Streptococcus agalactiae-screen-titre-FRT** PCR kit for detection and quantitative analysis of *Streptococcus agalactiae* DNA in the clinical material (blood plasma, cerebrospinal fluid (CSF), oropharyngeal swabs, epithelial swabs of lateral vaginal walls, anorectal swabs) using the polymerase chain reaction (PCR) with real-time fluorescence hybridization detection, developed by Federal Budget Institute of Science “Central Research Institute for Epidemiology”.

15. QUALITY CONTROL

In compliance with Federal Budget Institute of Science “Central Research Institute for Epidemiology” ISO 13485-Certified Quality Management System, each lot of the **AmpliSens® Streptococcus agalactiae-screen-titre-FRT** PCR kit has been tested against predetermined specifications to ensure consistent product quality.

16. KEY TO SYMBOLS USED

	Catalogue number		Caution
	Batch code		Sufficient for
	<i>In vitro</i> diagnostic medical device		Expiration Date
	Version		Consult instructions for use
	Temperature limitation		Keep away from sunlight
	Manufacturer	NCA	Negative control of amplification
	Date of manufacture	C-	Negative control of extraction
	Authorised representative in the European Community	C+	Positive control of amplification
IC	Internal control	PCE	Positive Control of extraction