

For Professional Use Only

AmpliSens® Enterovirus 71-FRT PCR kit Instruction Manual

AmpliSens®



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1. INTENDED USE

AmpliSens[®] *Enterovirus* 71-FRT PCR kit is an *in vitro* nucleic acid amplification test for qualitative detection of the RNA of *Enterovirus* type 71 in the biological material (cerebrospinal fluid, fecal samples), taken from the persons suspected of enteroviral infection without distinction of form and presence of manifestation, and natural environments (concentrated water samples) by using real-time hybridization-fluorescence detection of amplified products.



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

2. PRINCIPLE OF PCR DETECTION

Enterovirus type 71 detection by the polymerase chain reaction (PCR) is based on the amplification of the pathogen genome specific region using specific Enterovirus type 71 primers. In the real-time PCR, the amplified product is detected with the use of 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.

AmpliSens® Enterovirus 71-FRT PCR kit is a qualitative test that contains the Internal Control (Internal Control STI-87-rec). It must be used in the extraction procedure in order to control the extraction process of each individual sample and to identify possible reaction inhibition.

AmpliSens® *Enterovirus* 71-FRT PCR kit uses "hot-start", which greatly reduces the frequency of nonspecifically primed reactions. "Hot-start" is guaranteed by separation of nucleotides and Taq-polymerase by using a chemically modified polymerase (TaqF). The chemically modified polymerase (TaqF) is activated by heating at 95 °C for 15 min.

3. CONTENT

AmpliSens® Enterovirus 71-FRT PCR kit is produced in 1 form:

AmpliSens® Enterovirus 71-FRT PCR kit variant FRT-50 F, REF R-V64-F-CE

AmpliSens® Enterovirus 71-FRT PCR kit variant FRT-50 F includes:

Reagent	Description	Volume, ml	Quantity
PCR-mix-FL EV71 /STI	colorless clear liquid	0.6	1 tube
PCR-buffer-C	colorless clear liquid	0.3	1 tube
Polymerase (TaqF)	colorless clear liquid	0.03	1 tube
TM-Revertase (MMIv)	colorless clear liquid	0.015	1 tube
RT-G-mix-2	colorless clear liquid	0.015	1 tube
Positive Control EV 71 / STI (C+ _{EV71/STI})	colorless clear liquid	0,2	1 tube
TE-buffer	colorless clear liquid	0,2	1 tube
Negative Control (C–)*	colorless clear liquid	1,2	1 tube
Internal Control STI-87-rec (IC)**	colorless clear liquid	0,12	5 tubes

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

AmpliSens® Enterovirus 71-FRT PCR kit is intended for 55 reactions (including controls).

4. ADDITIONAL REQUIREMENTS

- RNA extraction kit.
- Disposable powder-free gloves and 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); CFX 96 (Bio-Rad, USA); Mx3000P (Stratagene, USA).
- Disposable polypropylene PCR tubes (0.1- or 0.2-ml):
 - a) 0.2-ml PCR tubes with optical transparent domed or flat caps or strips of eight 0.2-ml tubes if a plate-type instrument is used;

^{**} add 10 µl of Internal Control during the RNA extraction procedure directly to the sample/lysis mixture (see RIBO-sorb, **REF** K2-1-Et-50-CE protocol or RIBO-prep, **REF** K2-9-Et-50-CE protocol).

- 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 at 2 to 8 °C.
- Deep-freezer at 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 filters and use a new tip for every procedure.
- Store all extracted positive material (samples, 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 disposable protective gloves and laboratory cloths, and protect eyes while samples and reagents handling. Thoroughly wash hands afterward.
- 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 samples and unused reagents in accordance with local regulations.
- Samples should be considered potentially infectious and handled in a biological cabinet in accordance with appropriate biosafety practices.
- Clean and disinfect all samples or reagents spills using a disinfectant, such as 0.5 % sodium hypochlorite or another suitable disinfectant.
- Avoid samples 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 the 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 to 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® *Enterovirus* 71-FRT PCR kit is intended for analysis of the RNA extracted with RNA extraction kits from different types of biological material (cerebrospinal fluid, fecal samples) and natural environments (concentrated water samples).

The material is to be stored at 2 to 8 °C within 1 day, at minus 24 to minus 16 °C within 1 week.



Only one freeze-thaw cycle is allowed.

Pretreatment

The pretreatment of cerebrospinal fluid and concentrated water samples is not required.

Fecal samples are to be pretreated.

Samples pretreatment is carried out in accordance with the manufacturer's handbook [1].

7. WORKING CONDITIONS

AmpliSens® Enterovirus 71-FRT PCR kit should be used at 18-25 °C.

8. PROTOCOL

8.1. RNA extraction

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

- RIBO-sorb, REF K2-1-Et-50-CE;
- RIBO-prep, **REF** K2-9-Et-50-CE.



Extract RNA according to the manufacturer's protocol.



In case of using RIBO-sorb reagent kit, use 10 μ l of Internal Control STI-87-rec (IC) per sample.

8.2. Preparing RT-PCR

8.2.1. Preparing tubes for RT-PCR

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

1. Prepare the reaction mixture just before use. Prepare the reaction mixture for required number of reactions (including clinical and control samples) as specified in Table 1.



Carry out all control amplification reactions (positive and negative) for testing even one clinical sample. Prepare the reagent mixture for an even number of reactions to attain more precise dispensing.

- 2. Take the required number of the tubes taking into account the number of test samples and control samples. Select the type of the tubes, stripes and plates according to used device.
- 3. To prepare the reaction mixture add to a new sterile tube PCR-mix-FL EV 71 / STI, PCR-buffer-C, RT-G-mix-2, polymerase (TaqF) and TM-Revertase (MMIv) in accordance to Table 1. Thoroughly vortex the tubes and sediment the drops from the caps of the tubes.
- 4. Transfer **15 μl** of the prepared mixture to each tube.

Scheme of reaction mixture preparation

Table 1

Conomic of reaction mixture proparation						
		Reagent volume for the specified number of reactions, µl				
	lume per one tion, µl	10.00	5.00	0.25	0.50	0.25
Number of test samples	Number of reactions ¹	PCR-mix-FL EV 71 / STI	PCR- buffer-C	RT-G-mix-2	Polymerase (TaqF)	TM- Revertase (MMIv)
2	6	60	30	1.5	3.0	1.5
4	8	80	40	2.0	4.0	2.0
6	10	100	50	2.5	5.0	2.5
8	12	120	60	3.0	6.0	3.0
10	14	140	70	3.5	7.0	3.5
12	16	160	80	4.0	8.0	4.0
14	18	180	90	4.5	9.0	4.5
16	20	200	100	5.0	10.0	5.0
18	22	220	110	5.5	11.0	5.5
20	24	240	120	6.0	12.0	6.0
22	26	260	130	6.5	13.0	6.5
24	28	280	140	7.0	14.0	7.0
26	30	300	150	7.5	15.0	7.5
28	32	320	160	8.0	16.0	8.0

5. Add 10 µl of RNA samples extracted from test or control samples of RNA extraction stage using tips with filter. Discard the unused reaction mixture.



Avoid transferring of sorbent together with the RNA samples extracted by RIBOsorb kit.

6. Carry out the control reactions:

NCA - Add 10 µl of TE-buffer to the tube labeled NCA (Negative Control of Amplification).

 $C+_{EV71/STI}$ - Add 10 μ I of Positive Control EV71 / STI ($C+_{EV71/STI}$) to the tube labeled **C+**_{EV71/STI} (Positive Control of Amplification).

C-- Add 10 µl of the sample extracted from the Negative Control reagent to the tube labeled C-.

¹ Number of test samples (N) + 1 control of RNA extraction + 2 controls of RT-PCR + 1 extra reaction (N+1+2+1).

8.2.2. Reverse transcription and amplification



Make sure that the amplification run starts within 10-15 min after the addition of RNA to the reaction mixture

1. Create a temperature profile on your instrument as follows:

Table 2

AmpliSens unified amplification program for Rotor-type² and Plate-type instruments³

Step	Temperature, °C	Time	Fluorescent signal detection	Cycles
1	50	15 min	_	1
2	95	15 min	_	1
	95	10 c	_	
3	60	20 c	Fluorescence acquiring	45



Any combination of the tests can be performed in one instrument simultaneously with the use of the unified amplification program.

Fluorescent signal is detected in the channels for the FAM and JOE fluorophores.

Note – When several tests are performed simultaneously the detection in all used channels is enabled.

- 2. Adjust the fluorescence channel sensitivity according to *Important Product Information Bulletin* and Guidelines [2].
- 3. Insert tubes into the reaction module of the device.



It is recommended to sediment drops from walls of tubes by short centrifugation (1–3 s) before placing them into the instrument.

- 4. Run the amplification program with fluorescence detection.
- 5. Analyze results after the amplification program is completed.

9. DATA ANALYSIS

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

- The signal of the IC cDNA amplification product is detected in the channel for the FAM fluorophore.
- The signal of the Enterovirus type 71 cDNA amplification product is detected in the channel for the JOE fluorophore.

Results are interpreted by the crossing (or not-crossing) the fluorescence curve with the threshold line set at a specific level that corresponds to the presence (or absence) of a *Ct*

² For example, Rotor-Gene 3000, Rotor-Gene 6000 (Corbett Research, Australia), Rotor-Gene Q (QIAGEN, Germany).

³ For example, iCycler iQ5 (Bio-Rad, USA), Mx3000P (Stratagene USA).

value of a cDNA sample in the corresponding column of the result grid.

The results are interpreted in accordance with the table 3 and *Important Product Information Bulletin*.

Table 3

Results interpretation

Threshold		
Channel for the FAM fluorophore	Channel for the JOE fluorophore	Result
< boundary value	The value is absent or > boundary value	Enterovirus type 71 RNA is not detected
> or < boundary value	< boundary value	Enterovirus type 71 RNA is detected
The value is absent or > boundary value	The value is absent or > boundary value	Invalid result Repeat the PCR-analysis from the extraction stage



Boundary *Ct* values are specified in the *Important Product Information Bulletin* enclosed in 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 amplification as well as for the Negative Control of extraction are correct (Table 4).

Table 4

Results for controls

Stage for		Ct value in the channel for fluorophore		
Control	control	FAM	JOE	
C-	RNA extraction	< boundary value	The value is absent or > boundary value	
NCA	RT-PCR	The value is absent or > boundary value	The value is absent or > boundary value	
C+	RT-PCR	< boundary value	< boundary value	

10. TROUBLESHOOTING

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

- 1. If the Ct value determined for the Positive Control of Amplification (C+) in the channel for **JOE** fluorophore is greater than the boundary *Ct* value or absent, the RT-PCR and detection should be repeated for all samples in which the Enterovirus type 71 RNA was not detected.
- 2. If the Ct value determined for the Negative Control of Amplification (NCA) and/or Negative Control of Extraction (C-) in the channel for **JOE** fluorophore is less than the boundary Ct value, PCR analysis (beginning with RNA extraction stage) should be repeated for all samples in which the Enterovirus type 71 RNA was detected.

11. TRANSPORTATION

AmpliSens® Enterovirus 71-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® Enterovirus 71-FRT PCR kit are to be stored at 2–8 °C when not in use (except for PCR-mix-FL EV 71 / STI, PCR-buffer-C, RT-G-mix-2, Polymerase (TaqF), TM-Revertase (MMIv)). All components of the **AmpliSens**® Enterovirus 71-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-FL EV 71 / STI, PCR-buffer-C, RT-G-mix-2, Polymerase (TagF), TM-Revertase (MMIv) are to be stored at the temperature from minus 24 to minus 16 °C.



PCR-mix-FL EV 71 / STI is to be kept away from light.

13. SPECIFICATIONS

13.1. Analytical sensitivity

Biological material	Pathogen agent	Nucleic acid extraction kit	PCR kit	Sensitivity, GE/ml ⁴
Cerebrospinal fluid, concentrated water samples	Enterovirus type 71	RIBO-sorb RIBO-prep	PCR kit variant FRT-50 F	5 x 10 ³
Fecal samples	Enterovirus type 71	RIBO-sorb RIBO-prep	PCR kit variant FRT-50 F	1x10 ⁴

⁴Genome equivalents (GE) of the pathogen agent per 1 ml of a sample.

13.2. Analytical specificity

The analytical specificity of **AmpliSens®** *Enterovirus* 71-FRT PCR kit is ensured by selection of specific primers and probes as well as stringent reaction conditions. The primers and probes were checked for possible homologies to all sequences published in gene banks by sequence comparison analysis.

The specificity was proved on the follows strains of microorganisms: Human enterovirus (representatives of different genetic clusters – Human echovirus 2, 6, 9, 11, 14, 15, 16, 17, 18, 30; Human coxsackievirus A4, A5, A6, A9, A16, B4, B5, Human poliovirus 1, 2, 3 (Sabin1, Sabin2, Sabin3)); Influenza viruses A (H13N2, H9N2, H8N4, H2N3, H4N6, H11N6, H12N5, H3N8, H1N1, H6N2, H10N7, H5N1), B, Rhinovirus, RS viruses, Human adenovirus types 3, 5, 7, 37, 40, 41 (clinical isolates, the specificity was proved by direct sequencing of nucleic sequences); microorganisms strains and DNA samples - human DNA, strains of Acinetobacter baumanii ATCC® 19606™, Bacteroides fragilis ATCC® 25285™, Bordetella bronchiseptica ATCC® 10580™, Bordetella bronchiseptica ATCC® 4617™, Bordetella pertussis ATCC® 9340™, Candida albicans ATCC® 14053™, Candida guilliermondii ATCC[®] 6260[™], Candida krusei ATCC[®] 14243[™], Clostridium difficile ATCC[®] 9689™, Clostridium septicum ATCC® 12464™, Corynebacterium jeikeium ATCC® 43734[™], Corynebacterium xerosis ATCC[®] 373[™], Eggerthella lenta (Eubacterium lentum) ATCC® 43055™, Enterobacter aerogenes ATCC® 13048™, Enterobacter cloacae ATCC® 13047™, Enterococcus faecalis ATCC® 29212™, Enterococcus faecalis (vancomycin resistant) ATCC[®] 51299[™], Enterococcus faecium ATCC[®] 35667[™], Erysipelothrix rhusiopathiae ATCC® 19414™, Escherichia coli ATCC® 25922™, Escherichia coli ATCC® 35218™, Fluoribacter (Legionella) dumoffii ATCC® 33279™, Haemophilus infuenzae ATCC[®] 33930[™], Haemophilus influenzae ATCC[®] 9006[™], Haemophilus influenzae ATCC[®] 10211[™], Haemophilus parainfluenzae ATCC[®] 7901[™], Klebsiella oxytoca ATCC[®] 49131™, Klebsiella pneumoniae ATCC® 27736™, Legionella pneumophila ATCC® 33152™, Listeria grayi (murrayi) ATCC® 25401™, Listeria innocua ATCC® 33090™, Listeria monocytogenes ATCC[®] 7644[™], Moraxella (Branhamella) catarrhalis ATCC[®] 25238™, Moraxella (Branhamella) catarrhalis ATCC® 8176™, Neisseria meningitidis ATCC[®] 13102[™], Neisseria meningitidis ATCC[®] 13090[™], Neisseria lactamica ATCC[®] 23970™, Neisseria gonorrhoeae ATCC® 19424™, Neisseria gonorrhoeae ATCC® 49926™, Peptoniphilus (Peptostreptococcus) anaerobius ATCC® 27337™, Proteus mirabilis ATCC® 12453™, Proteus vulgaris ATCC® 6380™, Propionibacterium acnes ATCC[®] 11827[™], Pseudomonas aeruginosa ATCC[®] 15442[™], Rhodococcus equi ATCC[®] 6939[™], Salmonella enterica subsp. enterica serovar Typhimurium ATCC[®] 14028[™], Serratia marcescens ATCC[®] 14756[™], Staphylococcus aureus ATCC[®] 6538P[™],

Staphylococcus aureus (MRSA) ATCC[®] 43300™, Staphylococcus aureus ATCC[®] 29213™, Staphylococcus aureus ATCC® 25923™, Staphylococcus aureus ATCC® 33862™, Staphylococcus aureus (MRSA) ATCC® 33591™, Staphylococcus aureus subsp. aureus ATCC[®] 12600™, Staphylococcus epidermidis ATCC[®] 12228™, Staphylococcus haemolyticus ATCC® 29970™, Staphylococcus saprophyticus ATCC® 49907™, Stenotrophomonas maltophilia ATCC® 13637™, Streptococcus agalactiae ATCC[®] 12386[™], Streptococcus agalactiae ATCC[®] 13813[™], Streptococcus equisimilis ATCC[®] 12388[™], Streptococcus equi subsp. equi ATCC[®] 9528[™], Streptococcus bovis (Group D) ATCC[®] 9809[™], Streptococcus mutans ATCC[®] 35668[™], Streptococcus pneumoniae ATCC[®] 49619[™], Streptococcus pneumoniae ATCC[®] 6303[™], Streptococcus pneumoniae ATCC® 27336™, Streptococcus pneumoniae ATCC® 6305™, Streptococcus pyogenes ATCC[®] 19615[™], Streptococcus salivarius ATCC[®] 13419[™], Streptococcus uberis ATCC[®] 700407[™], Trichophyton mentagrophytes ATCC[®] 9533[™], Vibrio parahaemolyticus ATCC[®] 17802[™], Vibrio vulnificus ATCC[®] 27562[™], Moraxella catarrhalis ATCC® 25240™. Nonspecific responses were absent in tests of DNA samples of this microorganisms and human DNA samples.

The clinical specificity of **AmpliSens®** *Enterovirus* 71-FRT PCR kit was confirmed in laboratory clinical trials.

13.3. Reproducibility and repeatability

Biological material	Number of repeats	Coefficient of variation CV, %		
Disper	sion of values in a single to	est		
Fecal samples	8	0.49		
Concentrated water samples	8	0.49		
Cerebrospinal fluid	8	1.21		
Dispersion of values between tests, carried out in different days				
Fecal samples	16	1.72		
Concentrated water samples	16	2.27		
Cerebrospinal fluid	16	1.91		

13.4. Diagnostic characteristics

Comparative characteristics of reagent kits:

Samples type	Number of samples	Results of using comparison method ⁵	Results of using AmpliSens® <i>Enterovirus</i> 71-FRT PCR kit
Cerebrospinal fluid ⁶	100	Positive 19	Positive 30 ⁷
Cerebrospinai nuiu	100	Negative 81	Negative 70
Fecal samples ⁸	416	Positive 58	Positive 66 ⁷
recai samples 416		Negative 358	Negative 350
Concentrated water	100	Positive 22	Positive 30 ⁷
samples 9 100		Negative 78	Negative 70

In accordance with the submitted data the diagnostic sensitivity of the **AmpliSens**[®] *Enterovirus* 71-FRT PCR kit (relative sensitivity in comparison with the used comparison method) is no less than 93 % with a confidence coefficient of 90 % for cerebrospinal fluid and concentrated water samples and no less than 96 % with a confidence coefficient of 90 % for fecal samples.

The diagnostic specificity of the AmpliSens® *Enterovirus* 71-FRT PCR kit (relative specificity in comparison with the used comparison method) is no less than 93 % with a confidence coefficient of 90 % for cerebrospinal fluid and concentrated water samples and no less than 96 % with a confidence coefficient of 90 % for fecal samples.

14. REFERENCES

- 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® Enterovirus 71-FRT PCR kit for qualitative detection of

⁵ AmpliSens[®] Enterovirus-FRT PCR kit, manufactured by Federal Budget Institute of Science "Central Research Institute for Epidemiology", was used as a comparison method with carrying out genotyping of positive samples using Nix et all. 2006 direct sequencing procedure.

⁶ 12 samples of cerebrospinal fluid from the patients from hotbed of *EV* 71 group disease and 18 model samples of cerebrospinal fluid with average clinical *EV* concentrations was used. Negative cerebrospinal fluid samples (*EV* 71was absent) was taken from the patients with serous and purulent meningitis within 2011-2013 years.

⁷ Containing of *EV* 71 RNA in discordant samples (11 cerebrospinal fluid samples, 8 fecal samples and 8 concentrated water samples) was proved by direct sequencing of amplification product that allows connecting its appearance with lower analytical sensitivity of comparison method (Nix et all. 2006).

⁸ 36 fecal samples from the patients from hotbed of *EV* 71 group disease and 30 model fecal samples with average clinical *EV* concentrations was used. Negative fecal samples (*EV* 71 was absent) was taken from the patients with acute intestinal infections (n=200) and clinically healthy persons (n=150) within 2011-2013 years.

⁹ 30 model concentrated water samples (filtration module with membranes with positive charge to 40 mV/cm², elution beef extract (Sigma-Aldrich, USA)), contaminated by *EV* 71 in statistically average concentration specific to *EV* content in waste water, and 70 negative concentrated water samples (*EV* 71 was absent) was used.

RNA of *Enterovirus* type 71 in the biological material (cerebrospinal fluid, fecal samples) and natural environments (concentrated water samples) by real-time hybridization-fluorescence detection of amplified products developed by Federal Budget Institute of Science "Central Research Institute for Epidemiology".

15. QUALITY CONTROL

In compliance with the Federal Budget Institute of Science "Central Research Institute for Epidemiology" ISO 13485-Certified Quality Management System, each lot of **AmpliSens**® *Enterovirus* 71-FRT PCR kit has been tested against predetermined specifications to ensure consistent product quality.

16. KEY TO SYMBOLS USED

REF	Catalogue number	$\overline{\Sigma}$	Sufficient for
LOT	Batch code		Expiration Date
RUO	Research use only	<u>i</u>	Consult instructions for use
VER	Version		Keep away from sunlight
	Temperature limitation	NCA	Negative control of amplification
	Upper limit of temperature	C-	Negative control of extraction
	Manufacturer	C+ _{EV71/STI}	Positive control of amplification
	Date of manufacture	IC	Internal control
\triangle	Caution		