## ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

Contract title: IPA 2020 "Supply of equipment for communicable diseases surveillance and for emergency situations"

p 1/58

**Publication reference:** NEAR/BEG/2022/EA-OP/0219

Columns 1-2 should be completed by the contracting authority Columns 3-4 should be completed by the tenderer Column 5 is reserved for the evaluation committee

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

- Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
- Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words 'compliant' or 'yes' are not sufficient)
- Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offered specifications.

Unless otherwise specified, the requirements in these Technical Specifications are presented as a minimum standard which the offered goods must meet.

2021.1

LOT 1 – Reference Microbiology Laboratory

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
1	BECNCHTOP NEXT GENERATION SEGUENCING SYSTEM Quantity: 1			
	- Method of sequencing: "sequencing by synthesis" - SBS (sequencing by synthesis)"Benchtop" instrument (table, not larger than 70x70x70cm and not heavier than 60kg).			
	- Integrated instrument - clonal amplification, sequencing and analysis of data (base calling, alignment, variant calling, reporting) are performed in one instrument. No amplification auxiliary system or additional computer infrastructure is required.	Manufacturer's name:		
	-The system should perform paired-read sequencing (bi-directional sequencing) and allow multiple analysis simultaneously of up to 96 samples without the use of PCR reactions.	Product type, model: Specifications:		
	<ul> <li>The throughput of the device (throughput) should be up to 15 GB per one operating cycle.</li> <li>The instrument should enable the following applications:</li> </ul>			
	- complete genome resequencing - targeted sequencing			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	- de new sequencing			
	- "Mate-pair" sequencing for libraries with inserts of 2-5kb			
	- "Tag-based" gene expression			
	- small RNA sequencing			
	- ribosome profiling			
	- mapping of DNAse 1 hypersensitive sites			
	- nucleosome positioning and chromatin structure studies			
	- "ChIP-Seq" examination of sequences involved in protein-RNA interactions			
	- "CNV-Seq" determination of variations in the number of copies by sequencing			
	- "GRO-Seq" determination of the RNA polymerase initiation site			
	- sequencing of ancient DNA samples			
	- "paired-end mRNA" sequencing			
	- Analysis of DNA imprinting and allele specific expression.			
	- Illumination: Light-emitting diodes at 530 nm, 660 nm.			
	-The "Reagent chiller" section should have capacity for the entire reagent cartridge containing cluster-generating reagents, paired-end chemistry, and up to 600 sequencing cycles. Reagents should arrive pre-prepared in an integrated RFID-labelled			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	cartridge.			
	-The system should be a single flow cell system. Each "flow cell" is a substrate with one channel that can be read from the top, bottom or both surfaces, depending on the method of preparation. "Flow cells" should be self-positioned, clamped, and coded so that they can be placed in only one correct orientation.			
	-The instrument control computer should be integrated with the sequencer and have a Quad core CPU with 16GB of RAM for instrument control, signal processing, sequence matching, and variant characterization.			
	-The instrument must be delivered with the installed software for primary and secondary data analysis.			
	-Installation, qualification (IQ, OQ and PQ) and training to work on the instrument must be included in the price.			
	-Supply with the instrument a set of reagents for sequencing whole virus genomes and provide training of staff to perform the protocol for at least 5 working days			
2	PRECISE INCUBATION SYSTEM			
	Quantity: 1			
	<ul> <li>High-precision heating system for PCR plates and tubes with heating lid for sample preparation for all NGS platforms;</li> <li>For NGS sample preparation (NGS prep) and</li> </ul>			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	Bead Chip applications;			
	- Sample temperature regulation: ± 0.1 ° C;			
	- Temperature range: ambient + 5.0 ° C to 99.0 °			
	C; - Ability to select a block of 0.2 ml for PCR plates			
	of 96 wells, 0.6 ml and 1.5 ml tubes, as well as			
	MIDI plates;			
	- Heating lid that minimizes condensation;			
	- Simple temperature calibration;			
	- Dimensions not larger than 21 x 15 x 30 cm;			
	- Weight up to 3 kg			
3	HIGH SPEED SHAKER			
	Quantity: 1			
	-Fast high-performance thermal shaker for			
	handling a wide range of applications adapted for			
	scientific research, with application in the			
	pharmaceutical and biotechnological field.			
	Suitable for shaking micro titer plates, plates with			
	deep wells, tubes and rolls.			
	- Purpose of shaking: micro titer plates, tubes and			
	teats; - Shaking speed - adjustable: 200 - 3,000 rpm;			
	- Constant orbital shaking diameter: 2 mm;			
	- Shake program setting display;			
	- Built-in timer;			
	- Fire-resistant aluminum housing;			
	- Dimensions not larger than cm 80 x 142 x 170			
	(H x D x W);			
	- Weight up to 2.7 kg;			
	- The instrument should be able to add the			
	following adapters: for micro titer plates, for			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	plates with deep wells and for PCR plates			
4	HIGH PERFORMANCE MAGNETICS RACK			
	Quantity: 1			
	<ul> <li>Magnetic stand designed for product purification during NGS library preparation;</li> <li>Compatible with 96-well plates and MIDI plates;</li> <li>Made of ring magnet with integrated Spring Cushion technology, suitable for purifying demanding samples</li> </ul>			
5	GRADIENT THERMAL CYCLER			
	Quantity: 1			
	<ul> <li>7-inch TFT color touch screen, easy to operate;</li> <li>Fast heating and cooling, precise temperature control, for reliable results;</li> <li>Instrument can perform conventional PCR, gradient PCR, long-range PCR, isothermal amplification and various experiments</li> <li>12 temperature gradients;</li> <li>Protection against power outages, for your safety and work efficiency;</li> <li>Flexible options: Tube Mode and Block Mode</li> <li>Reaction volume: 0-100μl</li> <li>Module temperature range: 4 ° C-99.9 ° C</li> <li>Gradient: up to 12 gradients in one reaction</li> <li>Gradient temperature range: 35 ° C-100 ° C</li> <li>Temperature range of the heating cover: 40 ° C-110 ° C</li> </ul>			
	110 ° C - Temperature uniformity: ± 0.2 ° C - Temperature accuracy: ± 0.1 ° C			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	- Heating and cooling rates: 5.5 ° C / s			
	- Number of cycles: 99			
	- Number of steps: unlimited			
	- Temperature increase time: 1s-10min			
	- Storage capacity ≥ 1000 programs			
	- Dimensions: 260mm x 400mm x 260mm, 11kg			
	- Noise at work: <55dB			
6	REAL TIME PCR INSTRUMENT			
	Quantity: 1			
	-96 wells, 6 channels			
	-96 wens, 6 channels -Reaction volume: 0-100μL			
	-Reaction volume. 0-100µL -Temperature range: 0-100 ° C			
	-Heating / cooling method: Peltier			
	-Maximum heating rate: 6.1 ° C / sec			
	-Maximum cooling rate: 5.0 ° C / sec			
	-Temperature accuracy: ± 0.1 ° C			
	-Temperature uniformity: ± 0.1 ° C			
	-Gradient block: 12 row, gradient range: 1-40 ° C,			
	-Detection time: 7 sec for 96 wells for all channels			
	-Possibility of detecting 1 copy			
	-The real-time PCR device should have the			
	following excitation range:			
	- 465/510 (FAM, SYBR Green, EVA Green, LC			
	Green); 527/568 (HEX, VIC, TET, JOE); 580/616			
	(ROX, Texas Red); 632/664 (Cy5); 680/730			
	(Alexa Fluor680); 465/616 (FRET)			
	-Probe: TaqMan, Molecular beacons, Scorpion,			
	FRET			
	- Real-time PCR should be an open system for			
	consumables			
	- Real-time PCR device suitable for the following			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
_	analyzes: quantitative analysis, absolute			
	quantification, relative quantification, genotyping			
	analysis, SNP analysis, dissociation curve			
	analysis, endpoint analysis, HRM			
	- Dimensions of Real-time PCR devices: 355mm			
	x 480mm x 485mm, 30kg			
	-Real-time PCR operating environment:			
	temperature: 10 ° C-30 ° C, humidity: 20% -80%			
7	MICROCENTRIFUGE			
	Quantity: 2			
	-Maximum rotor speed 14800 rpm			
	-Maximum g-force: 16163 xg			
	-Maximum capacity 12 x 1.5/2 ml tube			
	-Timer setting: 20 sec to 99 min 59 sec in 1 sec			
	increments			
	-Acceleration / deceleration time from max speed:			
	17 sec / 18 sec			
	-Pulse mode for short, fast centrifugation			
	-Dimensions not larger than (H x L x W): 180mm			
	x 280mm x 230mm			
	-Device weight maximum 6.4 kg			
	-Noise level at 1m distance <60 dB			
	-Rotor imbalance detection			
	-Rotor exchange without tool			
	-Rotor with protective cover			
8	UNIVERSAL CENTRIFUGE WITH			
	ROTORS			
	Quantity: 2			
	-Rotor speed 16000 rpm			
	-Maximum g-force: 23511 xg			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Maximum capacity 4 x 400 ml tubes -Speed adjustment: up to 16000 rpm / 23511 xg, in divisions of 100 rpm or 100 xg -Timer setting: 9 min 59 sec in 1 sec increments -Unlimited continuous centrifugation mode -Pulse mode for short centrifuges at maximum speed -10 levels of acceleration and 10 levels of deceleration -Pulse mode for short, fast centrifugation -Audible signal to complete spinning and report a fault, with the possibility of switching off if necessary -Possibility to change set parameters (speed, RCF, time, acceleration / deceleration) during centrifuge operation -Dimensions not larger than (H x L x W): 355mm x 460mm x 550mm -Device weight maximum 48 kg -Noise level at 1m distance <68 dB -Automatic door lock after start -Aluminum rotor with airtight cover, capacity 24 seats for 2 ml tubes, fixed rotor angle 45 °, k factor 185 -Aluminum rotor with a capacity of 10 places for 10 ml tubes, fixed rotor angle 35 °, k factor 500 - Aluminum fixed angle rotor for 15 ml conical and round-bottom tubes k factor 500 - Swingout rotor 0-90 ° for 2 x micro titer plates, maximum RPM 4700, maximum force 2721 RPM"			
9	UNIVERSAL CENTRIFUGE WITH ROTOR			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	FOR TUBES			
	Quantity: 1			
	-Benchtop, small centrifuge			
	-Max. speed: 6800 - 8000 rpm			
	-Max. RCF: 6153 xg			
	-Max. capacity: 8 x 15 ml tube			
	-Voltage 220V			
	-Angle rotor 8 -place -Benchtop model, small size			
	-Microprocessor with large LCD display			
	-Electrical lid lock			
	-Air Cooling System			
	-Control panel with Touch-Operation			
10	MINISPIN CENTRIFUGE			
	Quantity: 4			
	-Capacity 8x 2.0ml			
	-Centrifugal force 2000 xg			
	-Fix speed 6000 rpm			
	-Power-ON time 99 min			
	-Timer display 7 segment LED			
	-Quick stop			
	-Cover opening automatic			
	-Rotor exchange without tool -Protective cover			
	-Noise level 48 dB			
	-Noise level 48 dB -Dimensions (W x H x D) 155 x 105 x 175 mm			
	-Weight 1.4 kg			
	-Protection class according to DIN EN 60529 IP			
	30			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
11	ANTIVIBRATION TABLE			
	Quantity: 1			
	-Anti-vibration table without wheels			
	-The bench must withstand the weight of the			
	instrument - more than 100 kg			
	-Table dimensions: up to 122cm x 92cm x 76cm			
12	LIQUID HANDLING SYSTEM FOR			
12	PREPARATION OF NGS LIBRARIES			
	Quantity: 1			
	-Min 25 positions on the deck - the possibility of			
	logical positioning according to the requirements			
	of the protocol			
	- Infrared curtain for security			
	-Rotating gripper with unique offset finger design - Internal LED light			
	- Bright, multiple color- and pattern-coded status light bar			
	- Spacious, open-platform with access from all sides			
	- Onboard cameras for live broadcast and on-error video capturing			
	- Linear motion control			
	- Optional Fly-by barcode reader			
	- Orbital shaker, tip washer and magnetic plate			
	included			
	- The pipetting liquid displacement mechanism			
	prevents any type of cross-contamination			
	- Pipette tips can be automatically changed			
	between each aspiration if required			
	- The software will generate a warning sign if the			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	aspirated volume is greater than the volume of the			
	pipette tip filled on the mandrel			
	- Pipettes can move independently in X,Y, Z and			
	D axes			
	<ul> <li>percentage error depending on volume ± 1-5%</li> <li>8 independent pipetting channels</li> </ul>			
	- Pipetting volume 0.5 - 5000 µl			
	- Dimensions:			
	Width: not more than 112 cm			
	Depth: not more than 81 cm			
	Height: not more than 104 cm			
	- Weight: not more than 146 kg			
13	WATER BATH			
	Quantity: 1			
	- TFT display			
	- Useful volume 20.3 L			
	- Thermal insulation cover made of stainless steel,			
	with double walls with internal curvature			
14	ANALITICAL BALANCE			
	Quantity: 1			
	- Range: 0-220 g			
	- Readability: 0.1 mg			
	- Repeatability: 0.2 mg			
	- Linearity $\pm 0.3 \text{ mg}$			
	- Weighing surface 120 mm			
15	PCR BOX WITH UV LAMP AND HEPA			
	FILTER			
	Quantity: 1			
	Quantity. 1			1

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-External dimensions: 650 mm (w) x 560 mm (d) x 875 mm (h) -Internal dimensions: 640 mm (w) x 540 mm (d) -Weight: 60 kg -Alarm system: Low airflow - Warning light and audible alarm -Operator safety: Safety screen with constant monitoring of UV and fluorescent light status -Laminar air flow: vertical flow 0.4 m / sec -Filtration: HEPA filter for air of purity ISO Class 5 -UV light: 20 V UV germicidal lamp -UV control: 4 preset time intervals with LED status indication -UV tube lifetime alarm: Light warnings and audible alarm after 1000 hours -Interior lighting: Full width LED lighting -Electrical requirements: 230V / 50Hz -Noise level: <55db (A) -Construction: Epoxy-coated steel cabinet to prevent corrosion. Polycarbonate side and front protection panelsStainless steel work surface			
16	FRAGMENT ANALYZER			
	Quantity: 1 -Detection method: Fluorescence -Light source: LED			
	-Connection: USB -Minimum power: 30W -Weight: 15 kg -Dimensions: 38x30x40 cm			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Automated sampling: 1-96 samples -Consumable gel cartridge: 100-300 samples, single channel cartridge, DNA: S1, S2, S3, F3, N1, N3, RNA: R1, NR1, Protein: P2 -Quick analysis: 1-7 minutes per sample (below 1 kb) -Resolution: 1-4 bp (below 500 bp) -Sensitivity: 5 pg / μl, 1 pg / μl (if diluted with distilled water) -Minimum sample volume: 1 μl (Micro vials. C104250), 10 μl (0.1 ml tube), 20 μl (0.2 ml tube) -Sample consumption: ≤1pL -Software - Relative qualitative and quantitative analysis, Electrophoresis, Analysis of images, Forming reports in accordance with the needs of users			
17	BIOLOGICAL SAFETY CABINET CLASS II  Quantity: 2			
	-Class II microbiological safety cabinet -Device in accordance with European standard for microbiological safety cabinets EN 12469: 2000 -Electronic closing and opening of the front panel using an electric motor -Infrared sensor for control and protection when closing the front movable panel -Control unit with a touch screen of at least 4.3 "image quality 130,000 pixels or more -Measurement and display of the current flow rate on the screen in m / s -Automatic airflow compensation to maintain set point			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Audible and visual alarm -Display of fan operating time, cabinet operation and service interval on the screen -PIN code-protected device specifications -Possibility of on-screen display: date of last and next service, date of filter installation and filter label -Air purity: ISO Class 4 (Class 10) in accordance with EN ISO 14644-1 (1999) -Main filter: H14 HEPA filter - 99.97% efficiency for particles> 0.3μm -Primary discharge filter: H14 HEPA filter - 99.97% efficiency for particles> 0.3μm -Additional outlet filter: H14 HEPA filter - 99.97% efficiency for particles> 0.3μm -Work surface made of stainless steel SS 316 -External dimensions of the cabinet without stand, ± 5% (W x D x H): 1200mm x 750mm x 1330mm -Workspace dimensions, ± 5% (W x D x H): 1107mm x 510mm x 741mm -Supplied with additional stand -At least two AC power outlets in the cabinet workspace that are activated and deactivated by pressing the display key -LED interior lighting with adjustable light intensity -Cabinet to be equipped with UV germicidal lamp -Possibility to adjust the duration of sterilization with a UV lamp and delayed start of sterilization			
18	AUTOMATED SYSTEM FOR EXTRACTION OF NUCLEIC ACIDS			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	Quantity: 2			
	Puantity: 2  - Extraction according to the principle of magnetic beads - 1-96 samples per cycle - 6 modules for plates, each plate for 16 samples - Plates: 2 x 8 samples - The possibility of using pre-filled whales for extraction - Duration of extraction for 96 samples: 24 minutes - Reaction volume: 30-1000μL - Sample volume: 200μL - Rotation speed: ≤2000rpm - Range of temperature control: Pyrolysis heating: room temperature-120 ° C, Elution heating: room temperature-120 ° C - Areas of application: clinical diagnostics, forensics, research, food quality control, control of the epidemiological status of the area . This instrument can process serum, plasma, whole blood, swabs, amniotic fluid, feces, tissues, paraffin sections, bacteria, fungi and other types of samples - Built-in 7-inch LCD display, touch screen - Flexible creation, deletion and modification of extraction programs - Possibility of storing 10,000 protocols, USB port - Extraction efficiency: high reaction efficiency for nucleic acids ≥95% - Contamination control: HEPA exhaust filter module with negative pressure and built-in UV			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	- Pre-installed program for UV disinfection			
	- Difference between wells CV≤1% - Temperature range: between 10 ° C and 30 ° C			
	- Humidity \le 85%			
	- Operating noise <60 dB			
	- Dimensions: 490 * 520 * 480mm			
19	FLUOROMETER			
	Quantity: 1			
	- More sensitive than quantification based on UV			
	absorption, making it ideal for valuable samples			
	- Accurately quantifies DNA, RNA and protein in			
	< 3 seconds per sample			
	- The new integrated reagent calculator reports the amount of color and buffer required			
	- Use only 1 μl of sample			
	- Flexible options for exporting results: Wi-Fi,			
	USB drive or direct connection with USB cable			
	- Dimensions: 13.6 cm x 25 cm x 5.5 cm, 743g - Excitation filters: Blue 430–495 nm, Red 600–			
	645 nm			
	- Emission filters: Green 510–580 nm, Red 665–			
	720 nm			
	- Processing time: ≤5s / sample			
	- Warm-up time: <35s			
20	NGS ANALYSIS SOFTWARE (PC			
	included)			
	Quantity: 1			
	-Microbial Genomics For Outbreak-,			
	Resistom-, Virulome-Investigation, and Real-			
	time Surveillance			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Allows automatic processing and analyzing			
	of NGS (e.g., Illumina, Ion Torrent, or			
	PacBio) and Sanger capillaryelectrophoresis			
	sequence data			
	-User friendly-No scripting or bioinformatics			
	skills needed to process your data and run			
	your analyses.			
	-Possibility to download pre-defined typing			
	schemes or quickly create a new scheme			
	based on a reference genome or allele			
	libraries.			
	-Possibilty to setup an assembling and			
	processing pipeline to analyze hundreds of			
	samples without any further user intervention			
	-Assemble raw reads (FASTQ) with			
	integrated SKESA, Velvet, SPAdes, and			
	BWA algorithms			
	-Read and analyze assembly files (ACE,			
	BAM, FASTA)			
	-Contamination check with Mash Screen			
	-Integrated database with an ability to store,			
	search, retrieve, export, and create reports			
	from experiment, epidemiologic, and DNA			
	sequence data			
	-Data fields are compliant with the meta-data			
	requirements of the EBI European Nucleotide			
	Archive (ENA)			
	-Manage and backup all data (sequence and			
	epi-data)			
	-Possibility to download from NCBI			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	complete/draft genomes or SRA reads -Possibility to compare new sequence entries against stored data -Automatically cluster alerts of possible outbreaks -Possibility for rapid and easy share typing schemes with others -Possibility to request a non-public epidemiologic data server for a closed group of users -Encryption (SSL) of all data in transmission - 1 PC: Computer Specification Microsoft Windows 64-bit or Linux 64-bit, quad-core processor, 16-32 GB RAM, 50 GB hard disk (HD), and Internet connection (via ports 80 & 443)			
21	LABORATORY WATER DEMINERALIZATION SYSTEM			
	Quantity:1  -Resistivity: 18.2 MΩ.cm at 25°C >1MΩ.cm @ 25°C -Flow rate: Up to 1.2 l/min -Type 1, Type 2, Type 3 -Recommended volume: Up to 10l/day1 Type 1, Up to 10l/day1 Type 2, Up to 30l/day Type3 -TOC value: < 5 ppb2 Type 1 <50 ppb Type 2 <200 ppb3, Type 3 -Bacteria TVC: <0.1cfu/ml4 Type 1 <100			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	cfu/ml Type 2 <1000 cfu/ml3 Type 3			
	-Endotoxin: <0.001EU/ml5			
	-RNases: <1pg/ml6			
	-DNases: <5pg/ml6			
	-Particulates: 0.2μm filtration			
	-Application includes molecular biology e.g.			
	DNA sequencing and PCR			
22	<b>ULTRA LOW FREEZER (minus 40 to</b>			
	minus 90°C) upright, volume 700-800 L			
	Quantity:2			
	-Device temperature range from -40 ° C to -			
	90 ° C			
	-Net device volume from 700L to 800L			
	-Max external dimensions of the device			
	(Width x Depth x Height): 1030 x 1040 x			
	1993 mm			
	-Microprocessor control of the device			
	Pt-1000 temperature sensor			
	-Color touchscreen LCD for parameter			
	control			
	-Hydrocarbon-based coolant for			
	environmental protection			
	-Insulation of polyurethane foam and vacuum			
	panels with a maximum thickness of 82 mm			
	-Exterior doors with insulation			
	-Security lock with the possibility of locking			
	with a key or NFC card			
	-Stainles steel of aluminum Interior door with			
	handle, at least 2 pieces			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Automatic valve for vacuum relese opening the door in case of emergency -Visual and audio alarm system for power failure, high temperature, low temperature, open door -Ability to protect device parameter settings with password -Possibility of graphical display of stored temperatures -Noise level <52 dBA -Electricity consumption 11.9 kWh / 24h -The device is equipped with software for recording, monitoring and visualization of temperature data and lists of events and alarms -Graphical display of temperature, upper and lower limits of temperature alarms depending on the time, on the screen of the device -Ability to transfer all recorded temperature data and lists of events and alarms up to 3 months back, to USB memory or SD card -24 pcs stainles steel racks with trays for 2"			
23	boxes, total capacyty of at least 576 boxes 2"  ULTRA LOW FREEZER (minus 86°C)  upright, volume 50 L  Quantity:1			
	-External dimensions 825x595x645 mm -Dimension inner 630x435x428 mm -Weight 87 kg			

Number  -Material inner cabinet Stainless steel Material outer cabinet Paintedsteel-Insulation type Polyurethane with cyclopentane -Insulation thickness 80 mm -Mobility Feet -Volume min 90 L -Fitures: Door Lock, LED light, Battery backup  24	1.	2.	3.	4.	5.
Material outer cabinet Paintedsteel-Insulation type Polyurethane with cyclopentane -Insulation thickness 80 mm -Mobility Feet -Volume min 90 L -Fitures: Door Lock, LED light, Battery backup  MALDI (Matrix-Assisted Laser Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer		Specifications Required	Specifications Offered		Evaluation Committee's notes
type Polyurethane with cyclopentane -Insulation thickness 80 mm -Mobility Feet -Volume min 90 L -Fitures: Door Lock, LED light, Battery backup  24 MALDI (Matrix-Assisted Laser Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da  -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
-Insulation thickness 80 mm -Mobility Feet -Volume min 90 L -Fitures: Door Lock, LED light, Battery backup  24 MALDI (Matrix-Assisted Laser Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da  -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
-Mobility Feet -Volume min 90 L -Fitures: Door Lock, LED light, Battery backup  MALDI (Matrix-Assisted Laser Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
-Volume min 90 L -Fitures: Door Lock, LED light, Battery backup  24 MALDI (Matrix-Assisted Laser Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer  -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
-Fitures: Door Lock, LED light, Battery backup  24 MALDI (Matrix-Assisted Laser Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da  -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer  -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
backup  MALDI (Matrix-Assisted Laser Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da  -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
MALDI (Matrix-Assisted Laser Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
Desorption/Ionization) APPARATUS  Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
Quantity: 1  -Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer	24				
-Benchtop / table mass spectrometer of linear configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer		Desorption/Ionization) APPARATUS			
configuration with MALDI-TOF technology for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer		Quantity: 1			
for microbiological identification -Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer		-Benchtop / table mass spectrometer of linear			
-Operation in the mass range up to at least 500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer		configuration with MALDI-TOF technology			
500,000 Da -Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
-Minimum laser life: 400 - 500 million shots -200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
-200Hz laser enables fast sample processing; min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer		,			
min 300 - 400 samples / h -Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
-Data system, monitor, barcode reader -Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer		1			
-Ability to connect to the laboratory information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer		<u> </u>			
information system independently of the manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
manufacturer -Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
-Ability to connect to an antibiotic susceptibility testing system independent of the system manufacturer					
susceptibility testing system independent of the system manufacturer					
the system manufacturer		l ·			
Describility of connecting to the system					
-Possibility of connecting to the system remotely					
-Possible export of data in a form that allows					

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	data processing with other programs			
	-Includes IVD reference library with profiles			
	of microorganisms that allows identification			
	of the following groups of microorganisms:			
	enterobacteria, gram negative			
	nonfermentative bacteria, gram positive cocci,			
	gram positive bacilli, anaerobes, legionella,			
	nocardia, campylobacteria, HACEK bacteria,			
	yeasts and broad species environment; a total			
	of a minimum of 3800 species.			
	-Includes a reference library with profiles of			
	microorganisms that allows the identification			
	of molds, and a special protocol for the			
	cultivation and preparation of samples, a			
	minimum of 240 species			
	-Includes an IVD reference library that allows			
	the identification of third level biosecurity			
	microorganisms.			
	-IVD Module for optimized analysis of direct			
	stars from positive blood cultures			
	-IVD Module for the module for automatic			
	subtyping of certain species (KPC-producing			
	Klebsiella pneumoniae and Escherichia coli;			
	Bacteroides fragilis cfiA subtyping)			
	-IVD Module for detecting the presence of			
	beta-lactamases, carbapenemases			
	-The matrix can be applied within 30 minutes			
	from the preparation of the sample smear on			
	the tiles			
	-Possibility of interruption of measurements,			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	and change of sample plates in case of emergency samples -Reusable tiles (washable) -Possibility of using disposable plates with the possibility of using all positions regardless of the number of inserts of the plate in the instrument -Start-up reagent set included at least 2000 samples and 200 positive blood culture samples -Built-in diaphragm pump system allows easy maintenance with minimum service interval (3 years) -Ionization source self-cleaning protocol without vacuum exclusion -Appropriate CE-IVD certificate for equipment			
25	MICROSCOPE w LED FLUORESCENCE AND CAMERA Quantity:1			
	-Robust metal stand -Binocular ergophoto tube 100%:0% and 0%:100% with inclination max 20°, adjustable height of viewing for min. 44mm -Objective nosepiece, 6 position, encoded, with functions: - light manager (automated adjusting light intensity in conjunction with objectives)			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	- automated measuring ratio - Mechanical table with drive which can be adjust for 15mm -Two integrated ergonomically positioned snap image buttons on left and right side of microscope (The snap image buttons allows to acquire images and videos directly on USB, without PC) -Achromatic aplanatic condenser 0,9 for magnification 1- 100x with 5 positions for phase contrast and dry darkfield -Illumination LED min 10W encoded, full Koeller, adjusting intensity on stand and ECO mode (automatically goes to stand by after being idle for 15 min.) -Active light manager with an adjustable light intensity, suitable for all kinds of objectives -Light intensity is memorized per objective and provides uniform brightness at all magnifications, eliminating manual lamp intensity adjustments when changing objectives -Objective: 10x/0.3, 20x/0.5, 40x/0.75, 63x/0.85, and 100x/1.3Oil -Eyepiece10x with field of view 23 mm -Additional magnification 1,25x and 1.6x -LED fluoroscence with 4 wavelenghts (385nm, 470nm, 565nm and 625nm) with power supply and control directly from microscope			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Filter set for florochrome (DAPI, Alexa Fluor 405, FITC, eGFP, TRITC, Cy3, AlexaFluor 633, Cy5) -Digital microscope monochromatic camera with HD resolution, live image min 30fps via HDMI, USB 3.0) -Image sensor size min. 13mm, pixel size min 5.86μm, exposition time 2s or more, same producer as microscope -Appropriate adapter and software for multichannel fluoroscence, extended focus, measurement)			
26	MICROSCOPE W BRIGHTFIELD,PHASE CONTRAST, DIGITAL CAMERA AND SOFTWARE			
	Quantity:1			
	-Robust metal stand -Binocular photo tube 50%:50% with inclination 30°, adjustable height of viewing for min 35mm -Objective nosepiece, 5 position, encoded, with functions:  • light manager (automated adjusting light intensity in conjunction with objectives)  • automated measuring ratio -Mechanical table with drive which can be adjust for 15mm -Two integrated ergonomically positioned snap image buttons on left and right side of			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	microscope (The snap image buttons allows			
	to acquire images and videos directly on			
	USB, without PC)			
	-Achromatic aplanatic condenser 0,9 for			
	magnification 1- 100x with 5 positions for			
	phase contrast and dry darkfield			
	-Illumination LED min 10W encoded and			
	halogen min 12V 35W, full Koeller,			
	adjusting intensity on stand and ECO mode			
	(automatically goes to stand by after being			
	idle for 15 min.)			
	-Active light manager with an adjustable light			
	intensity, suitable for all kinds of objectives			
	-Light intensity is memorized per objective			
	and provides uniform brightness at all			
	magnifications, eliminating manual lamp			
	intensity adjustments when changing			
	objectives			
	-Objective: 10x/0.25Ph1, 20x/0.45Ph2,			
	40x/0.65Ph2, 63x/0.85Ph3 and			
	100x/1.25Ph3Oil			
	-Eyepiece10x with field of view 23 mm			
	-Digital microscope colour camera with Ultra			
	HD/4K resolution, live image min 30fps via			
	HDMI, USB 3.0)			
	-Image sensor size min. 8mm, pixel size min			
	1.8µm, exposition time min. 1s, same			
	producer as microscope			
	-Appropriate adapter and software			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
27	MICROSCOPE W ULTRA DARK FIELD AND DIGITAL MICROSCOPE COLOR CAMERA			
	Quantity:1			
	-Robust metal stand -Binocular photo tube 50%:50% with inclination 30°, adjustable height of viewing for min 35mm -Objective nosepiece, 6 position, encoded, with minimum following functions: • light manager (automated adjusting light intensity in conjunction with objectives) • automated measuring ratio -Mechanical stage with travel range min. 105x85 mm for microtiter plates -Two integrated ergonomically positioned snap image buttons on left and right side of microscope (The snap image buttons allows to acquire images and videos directly on USB, without PC) -Ultra darkfield condensor 1.2/1.4 (0.75-1.0) -Illumination LED min 10W encoded, full Koeller, adjusting intensity on stand and ECO mode (automatically goes to stand by after being idle for 15 min.) -Active light manager with an adjustable light intensity, suitable for all kinds of objectives -Light intensity is memorized per objective and provides uniform brightness at all			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	magnifications, by eliminating manual lamp intensity adjustments when changing objectives -Objective: 10x/0.2 with FWD min.11mm, 20x/0.40 with FWD min 7.2mm -Eyepiece10x with field of view 23 mm -Digital microscope colour camera with Ultra HD/4K resolution, live image min 30fps via HDMI, USB 3.0) -Image sensor size min. 8mm, pixel size min 1.8μm, exposition time min. 1s -Same producer as microscope -Appropriate adapter and software			
28	MICROSCOPE w BRIGHT FIELD			
	Quantity:4 -Robust metal stand			
	-Binocular photo tube 50%:50% with inclination 30°, adjustable height of viewing for min 35mm -Objective nosepiece, 5 position, encoded, with functions:  • light manager (automated adjusting light intensity in conjunction with objectives)  • automated measuring ratio -Mechanical table with drive which can be			
	adjust for 15mm -Two integrated ergonomically positioned snap image buttons on left and right side of microscope (The snap image buttons allows			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	to acquire images and videos directly on USB, without PC) -Achromatic aplanatic condenser 0,9 for magnification 1- 100x -Illumination LED min 10W encoded and halogen min 12V 35W, full Koeller, adjusting intensity on stand and ECO mode (automatically goes to stand by after being idle for 15 min.) -Active light manager with an adjustable light intensity, suitable for all kinds of objectives -Light intensity is memorized per objective and provides uniform brightness at all magnifications, eliminating manual lamp intensity adjustments when changing objectives -Objective: 10x/0.25, 20x/0.45, 40x/0.65, 63x/0.85 and100x/1.25Oil -Eyepiece10x with field of view 23 mm			
29	MICROSCOPE with BRIGHT FIELD and DIGITAL CAMERA			
	Quantity: 5  -Robust metal stand -Binocular photo tube 50%:50% with inclination 30°, adjustable height of viewing for min 35mm -Objective nosepiece, 6 position, encoded, with functions:  • light manager (automated adjusting			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	light intensity in conjunction with objectives)			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	1.8µm, exposition time min. 1s, same			
	producer as microscope.			
	-Appropriate adapter and software			
30	STEREO MICROSCOPE			
	Quantity: 1			
	-Apochromatic optics			
	-Min. 11° or more Greenough optical system			
	-Zoom ratio 8:1			
	-Magnification 6,3x50x with objective 1x,			
	-Free working distance min 92mm -Compact stand with LED transmitted			
	illumionation: brightfield, darkfield and			
	oblique illumination			
	-Reflected LED segmented ring illumination			
	with power supply from stand			
	-Integrated binocular photo tube with			
	inclanation not more than 35°			
	-Eyepiece 10x with field of view min 23			
31	AUTOMATED ELISA READER			
	Quantity: 1			
	-Fully automated ELISA processing for low			
	to medium sample volume with minimal			
	manual input			
	-Open system			
	-High reliability and traceability due to			
	automatic identification of barcodes of patient			
	samples and ready-to-use reagents			
	-Fast processing of up to 50 tests per hour			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Capacity for up to 3 plates and 144 samples per run -Convenient operation of the software including scanning of QC certificates using a 2D-hand barcode scanner -Sample types Plasma, serum, CSF and stool -Parameter capacity per run up to 36 -Shakeable incubators 2 -Sample tubes Outer diameter 10 – 16 mm, height up to 100 mm -User interface Microsoft ® Windows ® 7 or similar -Online connection ASTM interface, bidirectional -Dimensions (WxDxH): up to 1600 mm x 750 mm x 1150 mm (incl. attached All-in-one PC) -Weight: up to 100 kg			
32	ELISA READER  Quantity: 2			
	-Detection modes - UV/vis absorbance spectra (Wavelength range 220-1000 nm) -Measurement modes -Endpoint and kinetic; Spectral scanning (absorbance); Well scanning -Microplate formats - Possibility to upgrade the option for reading plates from 6-1536 wells -Light sources - High energy xenon flash lamp			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Detectors - CCD spectrometer -Read times - less than 1 sec/well -Sensitivity - Full spectrum captured in < 1 s/well -Selectable spectral resolution: 1, 2, 5, and 10 nm -OD range: 0 to 4 OD -Accuracy: < 1% at 2 OD -Precision: < 0.5% at 1 OD and < 0.8% at 2 OD -Shaking - Linear, orbital, and double-orbital with user-defi nable time and speed -Incubation - +3°C above ambient up to 45 °C (the upper heating plate is always 0.5 °C warmer than the lower one in order to avoid condensation) In accordance with FDA 21 CFR Part 11 -Software included in the price -Computer included in the price -Optional - small volume plate with 16 wells (2 μL)			
33	ELISA WASHER  Quantity: 2			
	-3.5-inch LCD display100 wash programsAspirating in 2 positions, residual volume <0.7 μlMulti-plate can be selected by default settings or manual operation.			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Special rinse procedure makes easy to maintain the device and reduces contamination between platesAutomatical rinse procedure by distilled water when turn on or turn off can avoid crystallizing in the pipesSuitable for plate models: flat-, round -, U-, V- plate (96-well and 48-well) -Manifold types: 8- and 12- way -Wash times: 1 to 99 times adjustable -Wash lines: 1-12 lines selectable -Wash mode: plates or strips -Dispensing volume: 50-950 μl, interval 50 μl adjustable (May extend to 0-6000 μl, interval 25 μl adjustable) -Number of dispensing channels: 3 channels -Soaking and shaking time: 0-999 (seconds/minutes/hours) adjustable -Aspiration time: 0.1-9.9 seconds adjustable, interval 0.1second -Pipeline wash time: 0-240 seconds adjustable -Distilled water automatically wash interval: 0-20 plates - To be supplied with 8 (eight) bottles for washer/waste			
34	ULTRASONIC BATH			
	Quantity: 2			
	-Ultrasonic frequency 40 KHz -Tank material Stainless steel Cr-Ni 18/10			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Timer 1 - 30 minutes with automatic shutdown -Tank capacity 12 L -Valve for draining liquid from the tank, with hose connection -Total power 1320W -Power of ultrasonic generator 720W -Heater power 600W -Heating control Adjustable up to 90°C with automatic shut-off -Optimal liquid temperature 40 °C -Internal dimensions 300mm × 240mm × 200mm (L × W × H)			
35	INCUBATION SYSTEM (minimal volume 100 L)			
	Quantity: 8			
	-Minimum 100 L -Upper temperature range: Up to 80 C or better -Lod per rack/shelve: minimum 15 kg -Audio/Visual alarm -Inner glass door -Temperature fluctuation: maximum ±0,2 C (at 37 C) Temperature range: +5 °C above ambient temperature to +100 °C -High temperature accuracy thanks to APT.line <sup>TM</sup> technology or similar -Natural convection			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Controller with LCD display			
	-Electromechanical control of the exhaust air			
	flap			
	-Inner door made of tempered safety glass			
	2 chrome-plated racks			
	-Stackable			
	-Class 3.1 integrated independent temperature			
	safety device (DIN 12880) with visual alarm			
	-Ergonomic handle design			
	-USB port for recording data			
36	INCUBATION SYSTEM (minimal volume			
	200 L)			
	Quantity: 5			
	-Minimum volume 200 L			
	-Temperature range: +5 °C above ambient			
	temperature to +100 °C			
	-High temperature accuracy, APT line			
	technology or similar			
	-Forced convection			
	-Controller with LCD display			
	-Electromechanical control of the exhaust air			
	flap			
	-Inner door made of tempered safety glass			
	-2 chrome-plated racks			
	-Class 3.1 integrated independent temperature			
	safety device (DIN 12880) with visual alarm			
	-Ergonomic handle design			
	-USB port for recording data			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
37	INCUBATION SYSTEM WITH CO2 OPTION (minimal volume 50 L)			
	Quantity: 3			
	-Minimum volume 50 L -Temperature Control Range & Fluctuation:  °C at +5 ~ +50, ±0.1 -Temperature Uniformity: ±0.25 °C -CO2 Control Range & Fluctuation: % 0 ~ 20, ±0.15 -Humidity Level & Fluctuation: %RH 95, ±5 -Sterilisation Method: H2O2 -Decontamination (optional) -Temperature Sensor: Thermistor -CO2 Sensor: Dual IR -Display: LCD Touch Screen -Exterior Material: Painted Steel (rear cover not painted) -Interior Material: Stainless Steel Copper Enriched Alloy -Insulation Material: Extruded polystyrene -Heating Method: Direct Heat & Air Jacket System			
38	INCUBATION SYSTEM WITH COOLING OPTION			
	Quantity: 4			
	-Temperature range: 10 -60 C or better -Interior volume minimum: 53L			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Lod per rack/shelve: minimum 15 kg			
	-Optional stacking			
	-Inner glass door			
	-Audio/visual alarm			
	-Temperature variation/uniformity: maximum			
	±0,5 C (at 37 C)			
	- Display: LCD Touch Screen			
39	MULTIGAS INCUBATION SYSTEM			
	Quantity: 1			
	- External Dimensions (W x D x H): up to			
	480 x 550 x 585 mm (±5%)			
	- Volume 50 liters or more			
	- Temperature Control Range & Fluctuation:			
	at $+5^{\circ}$ C ~ $+50$ , $\pm 0.1$			
	- Temperature Uniformity: ±0.25°C			
	- CO2 Control Range & Fluctuation: 0% ~			
	$20\%, \pm 0.15\%$			
	- O2 Control Range & Fluctuation: 1% -18%			
	and 22% - 80%, ±0.2			
	- Humidity Level & Fluctuation: 95% RH, ±5			
	- CO2 Sensor: Dual IR			
	- O2 Sensor: Stabilized Zirconia Sensor			
	-Display: LCD Touch Screen			
	-Exterior Material: Painted Steel (rear cover			
	not painted)			
	-Interior Material: Stainless Steel Copper			
	Enriched Alloy			
	-Insulation Material: Extruded polystyrene			
	- Heating Method: Direct Heat & Air Jacket			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	System			
40	LABORATORY STEAM STERILIZER			
	Quantity: 3			
	Laboratory, vertical, compact, floor-standing: - Electrically heated, microprocessor- controlled, programmable, automatic - temperature range: Max: 105°C - 138°C - Capacity: 150 L - Chamber and lid built in AISI 316L stainless steel External structure in AISI 304 stainless steel Manual top lid, hermetically closed by knobs and silicon gasket The entire control is made through the PLC (Programmable Logic Controller) 3.5" color touch screen providing an easy and intuitive interface - The heating is performed by electrical heaters Drying is performed through a vacuum caused by thermal shock over the entire height of the chamber, thus achieving a quick and effective drying As an option, drying can be performed by a vacuum pump A thermostatic steam trap is used to achieve automatic elimination of the steam			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
41	CENTRIFUGE WITH COOLING			
	Quantity: 3			
	-Max. speed: 18,000 rpm			
	-Max. RCF: 23,542xg			
	-Max. volume: 4 x 200ml			
	-Speed range: 200 – 18,000 rpm			
	-Temperature range: -20°C - 40°C			
	-Running time: 59min 50s / 10s increments			
	99h 59min / 1min increments			
	-Dimensions 40cm x 36cm x 70cm (WxHxD),			
	-Weight 60 kg, -Power input: 660 W			
	-Power input: 600 w -Angle rotor 30x15ml Glass or 20x15ml			
	conical, Angle: 35°,			
	-Angle rotor 12x15ml, Angle: 32°, -Swing out			
	rotor 2x3 Microtitreplates			
	-Angle: 0-90°			
42	MEDIA DOSING SYSTEM			
	Quantity: 1			
	-Dosing range per dish 1 – 99.9 ml			
	-Standard filling rate (up to 15 ml) circa 900			
	dishes/hour			
	-Maximal dosing rate 500 ml/min			
	-Dosing reproducibility circa 1% (at 15 ml)			
43	FAST POC qPCR SYSTEM			
	Quantity: 1			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-On-site molecular diagnostics			
	-Portable, light			
	-Two heating blocks, rechargeable lithium			
	battery			
	-LCD display with touch screen			
	-No DNA/RNA extraction,			
	isothermal amplification with real-time detection			
	-Two- minutes cooking prepares the sample,			
	test system for diagnostics of EHEC,			
	EAggEC, EIEC/Shigella from bacterial			
	culture and selective media			
44	WATER DESTILATION UNIT			
	Quantity: 2			
	-Conductivity stage 1 /25 °C 2.3 µS/cm			
	-Production output 12 L/h			
	-Tank volume 24 L			
	-Heater power max. 9 kW			
	-Power consumption max. 9 kW			
	-Cooling water flow rate 3.3 L/min			
	-Maximal pressure cooling water 7 bar			
45	LABORATORY REFRIGERATOR			
	Quantity: 3			
	-Temperature set range: + 4 ° C to + 15 ° C			
	-Alarm set range: + 1 ° C to + 20 ° C			
	-Gross volume: 1430 L			
	-Interior dimensions: 1544 x 1291 x 707 mm			
	$(H \times W \times D)$			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-External dimensions: 2050 x 1441 x 910 mm (H x W x D) -Safety door lock with 2 keys -Digital temperature indicator (Display: 0.1 Digits) -Controlled fan cooling system for constant temperature and even temperature across the entire refrigeration chamberSafety thermostat avoids the dropping of the stored product's temperature below + 2 ° C -Self contained alarm system with integrated battery (12V - 7 Ah) takes over the alarm function and temperature value measurements in case of power failure for at least 48 hours -Automatic fan switch off when the front door opens -Material interior body: Stainless steel -Material outer casing: Stainless steel with glass door -Glass door heating (anti-mist) -12 Wire Shelf and 6 ST-Drawer -Noise level: 50 dB (A) -Energy consumption: 1.90 kWh / 24h -Heat ejection: 48 kcal / h -Hold Over time (from + 5 ° C to + 10 ° C): 1.42 h -Power: 280 W			
46	AUTOMATED IMMUNOASSAY SYSTEM			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	Quantity: 2			
Number	Quantity: 2  -Compact, multiparametric automated immunoanalyzer -Technology ELFA (Enzyme Linked Fluorescent Assay) -Enables 10 different analytes to be used simultaneously and up to 30 results can be produced per hour -Used with assay kits covering: - hepatitis, - AIDS, - serology testing, - bacterial and viral antigen detection, - fertility/pregnancy monitoring, - thyroid hormones, - tumor markers, - endocrinology, - anemia, - sepsis - immuno-hemostasis, - industrial microbiology -Mandatory tests in the range of clinical parameters: HIV DUO Ultra, Ultra HBs Ag, anti-HCV, Lyme IgM, IgG Lyme, EBV VCAIgM, EBV VCA / EA IgG EBV EBNA IgG, C. difficile Toxin A and B, C. difficile GDH		ref to documentation	Committee's notes
	-Mandatory tests for control of food pathogen detection: Salmonella, Listeria spp, Listeria			
	monocytogenes, E.coli O157:H7,			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	Campylobacter spp, Staphyloccocal			
	enterotoxins			
	-Complete analysis on the reagents for a			
	single test			
	-Always ready for run, without startup and			
	shutdown process			
	-Ability to work individual analysis and series			
	-Ability to work a number of different analyzes at the same time			
	-Complete control of sample and reagent bar			
	code			
	-The possibility of networking			
4=	BACTERIAL COUNTING SYSTEM			
47				
	Quantity: 1			
	-Detects down to one organism per 100 mL			
	-No dilutions (for counts up to 200 with			
	Quanti-Tray; 2,419 with Quanti-Tray/2000;			
	and up to 2,272 with Quanti-Tray/Legiolert).			
	-51-Well Trays			
	-97-Well Trays			
48	DILUTOR			
	Quantity: 1			
	-Fast and accurate dispensing: 12 sec. for			
	225ml / (9 sec in turbo mode)			
	-Dilution accuracy: >99%			
	-Turbo mode			
	-Integrated bubble level			
	-Motorized dispensing nozzle			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Editable programs: 20			
	-Weighing range : 0.1 to 4000g			
	-Stainless steel bag holder - extended lifetime			
	-Watertight base - easy to clean			
	-2 USB ports - 1 for upgrades / 1 for eTRACE connections			
	-Plug and play removable pumps: 4			
	-Interactive display (color codes)			
	-Dimensions (W x H x D): 275 x 250 x 400			
	mm			
	-Weight: 8 kg			
	-Electricity Supply: 100-240 V / 50-60 Hz /			
	120W			
49	LABORATORY TECHNICAL			
	BALANCE			
	Quantity: 2			
	- Range: 0-3000 g			
	- Readability: 0.01 g			
	- Repeatability: 0.02 g			
	- Linearity ± 0.05 g			
	- Cup diameter 120 mm			
50	DRY STERILIZER			
	Quantity 2			
	Quantity: 2 - Minimal volume 120 L			
	- Winimal volume 120 L - Temperature range: +10 °C above ambient			
	temperature to +300 °C			
	-Up to 30% lower energy consumption			
	compared to conventional units on the market			
	compared to conventional units on the market			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-High temperature accuracy, APT line technology -Adjustable fan speed -Controller with LCD display and enhanced time functions -Electromechanical control of the exhaust air flap -2 chrome-plated racks -Class 2 integrated independent adjustable temperature safety device (DIN 12880 or equivalent) with visual alarm -Ergonomic handle design -Ethernet interface -USB port for recording data			
51	LABORATORY PH METER			
	Quantity: 3			
	-Parameter pH/mV/Temp -Measuring range pH -2.000 19.999 -Measuring range Temperature -5.0 105.0 oC -Measuring range mV -1200.0+1200 / -2000+2000mV -Accuracy pH +/- 0.005/ +/-0.01/0.1 -Accuracy mV +/- 0.3 mV/ +/- 1 mV -Accuracy Temperature +/-0.1 K -Supplied with pH electrode			
52	THERMOSTAT DRY BLOCK SYSTEM WITH HEATING AND COOLING			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	<b>Evaluation Committee's notes</b>
	Quantity: 1			
Number	Quantity: 1  -Maximun load [kg] 0.3  -Permissible ON time [%] 100  -Timer yes  -Timer display TFT  -Time setting min. [s] 1  -Time setting max. [min] 6000  -Operating mode timer, continuous and program operation  -Working with microtiter plates yes  -Working temperature min. [°C] room temp 30 ±2  -Temperature setting range min. [°C] -10  -Heating temperature max. [°C] 110  -Set temperature resolution [°C] ±1  -Temperature control accuracy [°C] ±0.5  -Temperature stability [°C] 0.5  -Temperature homogenity [°C] ±0.5  -Heating rate [°C/min] 5.5  -Temperature display yes  -Cooling Rate [°C/min] 2  -Cooling Power [W] 72  embedded cooling unit yes  -Number of exchangable attachments 10  -Fixed safety circuit [°C] 145		ref to documentation	Committee's notes
	-Permissible ambient temperature [°C] 5 - 40 -Permissible relative humidity [%] 80 -Protection class according to DIN EN 60529 IP 21 -For controlled dry heating and cooling of test			

1.	2.	3.	4.	5.
Item Number	Specifications Required	<b>Specifications Offered</b>	Notes, remarks, ref to documentation	Evaluation Committee's notes
	tubes and microtubes in interchangeable blocks.  - thermoblock for 2 ml tubes  - thermoblock for microtubes 1.5 ml  - thermoblock for microtubes 0.5 ml  - thermoblock for 96- well PCR plates  - thermoblock for microtiter and deep-well plates  - cover for thermoblock			
53	- Power cable set, 220/240 V.  THERMOSTAT DRY BLOCK SYSTEM WITH HEATING OPTION			
	-Number of blocks: 4 -Heat output [W] 412 -Heating temperature range [°C] room temp. +5° - 120 -Temperature display -Adjustment and display resolution [K] 1 -Connection for external temperature sensor CT (DIN12878) PT 1000 variation; DIN EN 60751 Kl. A [K] ≤ ± (0.15 +0.002xITI) -Temperature stability within the blocks at 37°C [°C] ±0.2 -Temperature stability within the blocks at 60°C [°C] ±0.4 -Temperature Homogenity @ 37°C [K] 0.2 -Temperature Homogenity @ 60°C [K] 0.4 Heatingrate / Heat up time with external			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	sensor [K/min] 5 -Set-up plate material Aluminium alloy -Set-up plate dimensions [mm] 96 x 304 -Fixed safety circuit [°C] 150 -Timer -Time setting range [min] 1 – 5999 -4 interchangeable blocks -Included: - block removal tool - 2 aluminium thermoblock for 2 ml tubes - 2 aluminium thermoblock for microtubes 1.5			
54	ml AUTOMATED SYSTEM FOR STAINING OF MICROORGANISMS			
	Quantity: 1  -Standardization – slides are all stained the same way -Up to 30 slides ready in 5 minutes -Eco-friendly system -Staining adjustable to lab practices/habits -Standardized staining – innovative spray nozzles always dispense the same reagent volume -No cross contamination – each slide separated & fresh staining reagent used each time -Improved microorganism differentiation compared to manual and bath staining results			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Full traceability of reagents, users and maintenance – troubleshoot problems & ensure compliance -User management to ensure standardization of the process -Clean and safe staining -Simply Load & Go (just 2 handling steps!) -Easy intuitive touch screen -Customize & program protocols -Rapid results (3-5 minutes) -Fully automated process from fixation to slide drying -Improved lab workflow with single or batch slides possible -Can be integrated with Full Microbiology Lab Automation -Optional cytocentrifuge function			
55	MICROBIAL DETECTION SYSTEM			
	Quantity: 1 -Built-in control module and incubation			
	chamber with optical detection system, where each position has its own optical detection system -Capacity of 120 bottles, with the possibility of subsequent upgrade capacity up to 840 (Modular system to increase easily the analytical capacity) -Colorimetric method of CO2 detection due to			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	growth of microorganisms -Continuous monitoring of changes every 10 minutes, gives immediate notification of results with instant visual and audible alerts,			
	including a remote alarm capabilityPossibility of adapting the capacity of the instrument for simultaneous detection of			
	mycobacteria in one compartment of the incubator and other microorganisms in the other compartment (indipendent drawers for			
	blood and SBFs samples and mycobcteria other than blood samples in the same			
	instrument) -Availability 24/7 -Software support for device handling, with			
	the possibility of connecting to a LIS -Algorithms adapted to the detection of microorganisms from blood and other			
	primarily sterile body fluids, sputum - validated by the manufacturer and approved by the FDA (CE-IVD marked and FDA			
	clearance for blood and SBFs) -Algorithms adapted to the detection of			
	microorganisms from bottles that stood at room temperature for 24 hours before investment without the risk of false negative			
	results (Patented alghoritms for delayed bottles)			
	-Customizable protocol incubation and protocol period by bottle			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-From the same bottle used, in addition to the detection of bacteria, the detection of fungi is also possible -Full solution of plastic bottles (unbreakble) to ensure maximum of safety - no glass bottlesStorage up to 2000 results and growth curves -The possibility of archiving data to a USB drive -The ability to display and print different data and growth curves -Bar code reader - built-in and external reader -Printer -UPS -Keyboard -Embedded touch scree			
56	DENSITOMETER			
	Quantity: 10			
	-Measurement range 0.00–15.00 McF -Display resolution 0.01 McF -Light source LED -Measurement wavelength (λ) λ = 565 ±15 nm -Accuracy (0.3–5.0 McF)±3% -Measurement time: 1 s -Sample volume: not less than 2 ml -Tube external diameter: 12 mm, 16 mm (using A-12, A-16 adapter) or 18 mm (without adapter)			

1.	2.	3.	4.	5.
Item Number	Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	-Possibility to restore factory calibration			
	settings			
	-Display: LCD			
	-Dimensions (W×D×H): 165×115×75 mm			
	-Weight: up to 0.7 kg			
	-Input current/power consumption: 12 V, 7			
	mA / 0.1 W			
	-External power supply: Input AC 100–240			
	V, 50/60 Hz; Output DC 12 V			
	-Standard set: External power supply, A-16			
57	VORTEX MIXER			
	Quantity: 12			
	-Type of movement orbital			
	-Shaking stroke [mm] 4			
	-Permissible shaking weight (incl.			
	attachment) [kg] 0.4			
	-Motor rating input [W] 39			
	-Motor rating output [W] 9			
	-Speed min (adjustable) [rpm] 500			
	-Speed max. [rpm] 2500			
	-Speed display scale			
	-Speed control scale 0 - 6			
	-Operating mode continuous operation			
	-Touch function yes			
	-Dimensions (W x H x D) [mm] 120 x 140 x			
	138			
	-Weight [kg] 3.9			
	-Permissible ambient temperature [°C] 5 - 40			
	-Permissible relative humidity [%] 80			

1.	2.	3.	4.	5.
Item       Specifications Required       Specifications Offered         Number       1		Notes, remarks, ref to documentation	Evaluation Committee's notes	
	-Protection class according to DIN EN 60529 IP 21			
58	FLAMELESS STRILIZER			
	Quantity: 6			
	-No combustion on the housing (Cool-Touch) -Sterilization temperature 750 ° C - 1000 ° C -Comfortable operation on touch or foot pedal (stainless steel foot pedal, cable length 3.0 m, included) -Energy efficient use through Thermocontol technology -Optical display of sterilization flow -IC sterilization source -Hallogen lamp -Sterilization of annealing tube before use -Quartz sterilization tube -Special quartz glass annealing tube -Very easy cleaning of devices and annealing tubes -Tube size external - minimum Ø 19 mm, internal - minimum Ø 16 mm, length maximum 112 mm -Fixed timer (10 seconds) automatically controls the heating of your instruments -Tested and certified for photobiological safety of lamps and lamp systems according to EN 62471 by BG ETEM - No risk to skin and eyes			
	-Dimensions of the device maximum WxHxD 11 x 17 x 18 cm			

## **Installation and after sales services for Lot No1**

	Specifications Required		Notes, remarks, ref to documentation	Evaluation Committee's notes YES/NO
Installation	Installation performed by contractor or authorised service provider; All the equipment must include all necessary parts and standards for its installation			
Testing	Testing of all basic function on a set of producer's standard samples commonly used for the corresponding instrument.			
Education	Theoretical education about basic functions of instrument, software and maintenance in Serbian or interpretation should be provided for 2 doctors and 3 technicians during 5 days performed by a manufacturer's licensed instructor no sooner than 1 month before installation.			
Start-up Training	Practical start-up training for 5 end users after installation and testing in all basic functions of the instrument on set of standard samples, commonly used for the corresponding instrument. Duration of training 1 day.			
Manuals	Instruction manual in English and Serbian			
Certificates and documentation	CE mark; Certificates conform to standards as specified in EU Directive 2002/98/EC; GMP (Good Manufacturing Practice)documentation; all in English language.			
Warranty	One year after provisional acceptance in accordance with the conditions laid down in Article 32 of the General Conditions.			

## Annex II + III: Technical Specifications + Technical Offer - part II – Place of delivery/Acceptance

Item	ARTICLE	Name of person responsible for provisional and final acceptance	Place of acceptance		
Lot 1 - <b>RE</b>	Lot 1 - REFERENCE MICROBIOLOGY LABORATORY				
Item 1-58	All items	Dr Verica Jovanović	Institute of Public Health of Serbia "Dr Milan Jovanovic Batut" Ministry of Health, Republic of Serbia Dr Subotica 5 11000 Belgrade		

Authorised Contact Person	Delivery address
Name: Dr Verica Jovanović Phone: +381 11 2442741 Fax: N/A E-mail: verica_jovanovic@batut.org.rs Working hours: 7:30-15:30 (Monday to Friday)	Lot 1 Institute of Public Health of Serbia "Dr Milan Jovanovic Batut" Ministry of Health, Republic of Serbia Dr Subotica 5 11000 Belgrade