

Detalii specifice și standarde tehnice

LOT 1: “Centrifugi de laborator pentru plăci și suporturi magnetice pentru tuburi de 1.5 ml”:

1. Centrifugă pentru plăci (Centrifuge for plates)

Specificații tehnice solicitate		Specificații tehnice oferite
Model		CVP-2, Centrifuge-Vortex for PCR plates
Producător		Biosan
Cod produs		BS-010219-A02
I. Description of function and use		
Main destination	It is used for centrifuging plates before PCR to ensure all reactants are in the bottom of the wells for proper concentrations and improved yields.	Yes
II. Main specifications		
Capacity	- 2 x PCR Plates (or microplates) 24 x 0.2 mL PCR strips (8x0.2 mL), rotor chamber with two plate carriers that rest at a 75° angle. Rotor capacity - two plates, any style, up to 25 mm high.	2 x PCR Plates (or microplates), 24 x 0.2 mL PCR strips (8x0.2 mL), PCR strips in a frame , rotor chamber with two plate carriers that rest at a 90° angle. Rotor capacity - two plates, any style, up to 25 mm high.
Operating temperature	- 4 to 30 °C	4 to 30 °C
Centrifugal Force	- 500 x g - 600 x g	Maximum RCF:225xg (1500rpm)
Speed	- 2000 - 3000 RPM	300–1500 rpm
Dimensions (W x D x H)	- 200-300 mm x 250-400 mm x 150-200 mm	285x350x190 mm
Weight	- 4-6 kg	6,15 kg
Technique(s)	- Centrifugation: suitable	Yes
With timer function	- Yes	Yes
III. Electricity requirements		

	Supply voltage:	<ul style="list-style-type: none"> - 230 ± 10 V - Voltage and plugs type adapted to meet the requirement of electrical system in Moldova. 	<ul style="list-style-type: none"> - 230 ± 10 V - Voltage and plugs type adapted to meet the requirement of electrical system in Moldova.
	Frequency:	<ul style="list-style-type: none"> - 50 Hz. 	<ul style="list-style-type: none"> - 50 Hz.
IV.	Documentation		
	Manufacturer's certificate	<ul style="list-style-type: none"> - ISO 13485:2016 - Quality Management Systems for Medical Devices – mandatory. - CE Marking - Indicating compliance with European Union regulations and directives related to medical devices. 	Yes
	Quality and safety standards	<p>EU Electrical Safety Standards Compliance:</p> <ul style="list-style-type: none"> - EN 60601-1: Medical Electrical Equipment - General Requirements for Basic Safety and Essential Performance - IEC 61010-1: Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - EN 55014 - Electromagnetic compatibility. - Protection class (in accordance with EN 60529). 	Yes
V.	Accessories		
	Plate adapters	<ul style="list-style-type: none"> - Compatible with all types of 96 well plates such as full-skirted, half-skirted or even non-skirted plates. 	Yes
VI.	Operation, maintenance and installation		
	Operation and maintenance manual:	<ul style="list-style-type: none"> - At least one set of operation, maintenance and service manuals for each equipment. The manuals to include instructions for: <ul style="list-style-type: none"> o setting up the equipment o routine cleaning and maintenance o planning for periodic maintenance. 	Yes
	Language of documentation:	<ul style="list-style-type: none"> - Written in United Nations languages: <ul style="list-style-type: none"> o at least in English and o mandatory in Romanian. 	Yes
	Installation and maintenance:	<ul style="list-style-type: none"> - The bidder must arrange for the equipment to be installed by certified or qualified personnel. Any prerequisites for installation will be communicated to the beneficiary in advance, described in detail in written form. - The bidder will provide a comprehensive maintenance plan. The cost of the maintenance plan to be defined and guaranteed over the period of warranty. - The supplier will provide an after-sale service. 	Yes

		- The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints and to repair or replace within 14 days.	
	Training:	- The bidder will provide user training (including how to use and maintain the equipment).	Yes
	Standard maintenance tools:	- All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication material, to be included in the offer. <ul style="list-style-type: none"> o Bidders to specify the quantity of every item included in their offer (including items not specified above). 	Yes
	Spare parts:	- Each assembled equipment to be accompanied by an authorized list of spare parts.	Yes
	Warranty:	- At least 3 years .	3 years
	Remarks above:	- The equipment offered, including its power supply, to be designed and constructed to operate properly and continuously in the conditions of the Republic of Moldova. - The equipment may need to tolerate high humidity (as high as 90% at 35 °C), ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply.	Yes

2. Centrifugi pentru plăci/tuburi cu 8 benzi (Centrifuge for plates/8-strip tubes)

Specificații tehnice solicitate		Specificații tehnice oferite
Model		MIKRO 200
Producător		Andreas Hettich GmbH
Cod produs		2400
I. Description of function and use		
Main destination	It is used for micro centrifugation and quick spin-down application.	Yes
II. Main specifications		
Speed	- 13500-15000 RPM	500-1500 RPM
Max. RCF	- 21,300 x g	21382 g
Time control	- 10 s to 9:59 h, with continuous run function	1 – 99 min: 59 s, continuous run, short cycle mode (impulse button)
Automatic door release at completion	- Preferably	Door release by pressing button open by operator
Max. capacity	- 4 x 8well PCR strips or 24 x 1.5/2 mL	4 x 8well PCR strips or 30 x 1.5/2 mL
Noise level (dB)	- ≤ 60	≤ 58 dB (A)
Weight	- 10-20 kg	11,5 kg
Ventilated	- Yes	Yes
III. Electricity requirements		
Supply voltage:	- 230 ± 10 V - Voltage and plugs type adapted to meet the requirement of electrical system in Moldova.	- 230 ± 10 V - Voltage and plugs type adapted to meet the requirement of electrical system in Moldova.
Frequency:	- 50 Hz.	- 50 Hz.
IV. Documentation		
Manufacturer's certificate	- ISO 13485:2016 - Quality Management Systems for Medical Devices – mandatory.	Yes

		<ul style="list-style-type: none"> - CE Marking - Indicating compliance with European Union regulations and directives related to medical devices. 	
	Quality and safety standards	<p>EU Electrical Safety Standards Compliance:</p> <ul style="list-style-type: none"> - EN 60601-1: Medical Electrical Equipment - General Requirements for Basic Safety and Essential Performance - IEC 61010-1: Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - EN 55014 - Electromagnetic compatibility. - Protection class (in accordance with EN 60529). 	Yes
V.	Accessories		
	Centrifuge rotor for 8-well PCR strips	<ul style="list-style-type: none"> - For 0.2 mL single tubes or 4x 8-well strips. 	ANGLE ROTOR, 4-PLACE 2418-A, -For 0.2 mL single tubes or 4x 8-well strips.
	Centrifuge rotor for 24 x 1.5/2 mL tubes	<ul style="list-style-type: none"> - For 24 x 1.5/2 mL tubes 	ANGLE ROTOR, 24-PLACE 2434, for 1.5/2 mL tubes
VI.	Operation, maintenance and installation		
	Operation and maintenance manual:	<ul style="list-style-type: none"> - At least one set of operation, maintenance and service manuals for each equipment. The manuals to include instructions for: <ul style="list-style-type: none"> o setting up the equipment o routine cleaning and maintenance o planning for periodic maintenance. 	Yes
	Language of documentation:	<ul style="list-style-type: none"> - Written in United Nations languages: <ul style="list-style-type: none"> o at least in English and o mandatory in Romanian. 	Yes
	Installation and maintenance:	<ul style="list-style-type: none"> - The bidder must arrange for the equipment to be installed by certified or qualified personnel. Any prerequisites for installation will be communicated to the beneficiary in advance, described in detail in written form. - The bidder will provide a comprehensive maintenance plan. The cost of the maintenance plan to be defined and guaranteed over the period of warranty. - The supplier will provide an after-sale service. - The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints and to repair or replace within 14 days. 	Yes

	Training:	- The bidder will provide user training (including how to use and maintain the equipment).	Yes
	Standard maintenance tools:	- All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication material, to be included in the offer. <ul style="list-style-type: none"> o Bidders to specify the quantity of every item included in their offer (including items not specified above). 	Yes
	Spare parts:	- Each assembled equipment to be accompanied by an authorized list of spare parts.	Yes
	Warranty:	- At least 3 years .	Yes
	Remarks above:	- The equipment offered, including its power supply, to be designed and constructed to operate properly and continuously in the conditions of the Republic of Moldova. - The equipment may need to tolerate high humidity (as high as 90% at 35 °C), ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply.	Yes

3. Suport magnetic pentru tuburi de 1.5 ml (DynaMag-2 Magnet), sau „echivalent” (*Magnetic rack for 1,5 ml tubes, DynaMag-2 Magnet, or „equivalent”*)

Specificații tehnice solicitate		Specificații tehnice oferite
Model		MagSorb-16, mounting racks and magnetic stand
Producător		Biosan
Cod produs		BS-010601
I. Description of function and use		
	Magnet rack combines a strong magnetic attraction for efficient separations in standard microcentrifuge tubes with a flexible and smart ergonomic design.	Magnet rack combines a strong magnetic attraction for efficient separations in standard microcentrifuge tubes with a flexible and smart ergonomic design.
II. Main specifications		
Working Volume	- 10 – 2000 µL	- 10 – 2000 µL
Capacity	- Holds up to 16 standard 1.5–2 mL microcentrifuge tubes in numbered spaces	- Holds up to 16 standard 1.5–2 mL microcentrifuge tubes in numbered spaces
Additional Technical Specifications:	<ul style="list-style-type: none"> - Top rack to can be quickly removed from magnet in base, ready for resuspension, vortexing, rotation, or manual sample shaking. - Magnet can be used with all types of Dynabeads for efficient isolation of proteins and nucleic acids. - Center pin in rack ensures equal vortexing of all tubes. - Rack can also be removed and used to store tubes. - 16 numbered sample spaces make magnet for parallel handling of multiple samples. - With eight tube positions on each side of rack, easily scale protocols to accommodate 96-well plate reactions. 	<ul style="list-style-type: none"> - Top rack to can be quickly removed from magnet in base, ready for resuspension, vortexing, rotation, or manual sample shaking. - Magnet can be used with all types of Dynabeads for efficient isolation of proteins and nucleic acids. - Center pin in rack ensures equal vortexing of all tubes. - Rack can also be removed and used to store tubes. - 16 sample spaces make magnet for parallel handling of multiple samples. - With eight tube positions on each side of rack, easily scale protocols to accommodate 96-well plate reactions.
III. Electricity requirements		
Supply voltage:	- NA	- NA
Frequency:	- NA	- NA

IV.	Documentation		
	Manufacturer's certificate	- NA	- NA
	Quality and safety standards	- NA	- NA
V.	Accessories		
		- NA	- NA
VI.	Operation, maintenance and installation		
	Operation and maintenance manual:	<ul style="list-style-type: none"> - At least one set of operation, maintenance and service manuals for each equipment. The manuals to include instructions for: <ul style="list-style-type: none"> o setting up the equipment o routine cleaning and maintenance - planning for periodic maintenance. 	Yes
	Language of documentation:	<ul style="list-style-type: none"> - Written in United Nations languages: <ul style="list-style-type: none"> o at least in English and o mandatory in Romanian. 	Yes

- **Toate bunurile vor fi testate de beneficiar. Acceptarea bunurilor și semnarea actelor de recepție va avea loc după testarea pozitivă efectuată de beneficiar.**

NUMELE FURNIZORULUI GBG MLD SRL

Semnătura și ștampila autorizate _____ Tudor Ceaicovschi

Locul: Chișinău

Data: 29 iulie, 2024