IISER PUNE

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GLOBAL TENDER REFERENCE NO: IISER/PUR/0209/20

Tender ID: 2021_IISRP_630267_1

CORRIGENDUM

With tender reference no IISER/PUR/0209/20 dated 18th May, 2021 for procurement of Mixer Mill. It is notified that, the technical specifications are amended as below.

Sr.No	Tendered specification	Amendment in specification
1	**Mixer Mill:** For Grinding, homogenizing and mixing or small sample amounts in only few seconds. -suitable for the disruption of biological cells as well as for DNA / RNA recovery --cryogenic grinding. - Most of the materials can be pulverized and mixed at ambient temperature without any cooling **Expectation:** Quick, efficient pulverization and homogenization High sample throughput due to short grinding times and two grinding station Reproducible results by digital preselection of grinding time and vibrational frequency Large range of grinding jars Up to 9 parameter combinations can be stored **Specifications:** Field of application: size reduction, mixing, homogenization, cell disruption Material use: Hard, medium-hard, soft, brittle, elastic and fibrous particle size: up to 8mm fineness: approx. 5µm Sample volume: max. 10-20ml grinding time: 5 minutes Dry grinding: Yes Wet grinding: Yes	SPECIFICATION FOR BENCH TOP MIXER MILL The mill should be compact versatile bench-top unit, which has been developed specially for dry, wet and cryogenic grinding of small amounts of sample. It can mix and homogenize powders and suspensions in only a few seconds. The grinding jars of the mill perform radial oscillations in a horizontal position. The inertia of the grinding balls causes them to impact with high energy on the sample material at the rounded ends of the grinding jars and pulverizes it. Also, the movement of the grinding jars combined with the movement of the balls result in the intensive mixing of the sample. The mill should have the following features mention below:

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Cryogenic grinding: Yes
Cell digestion with reaction vials: max. 20 x 2.0ml
Self - centering clamping device: Yes
No. of grinding stations: 2
Digital preselection of vibrational frequency: 3 - 30Hz (180 - 1800 min-1)
Digital preselection of grinding time: 10s - 99 min
Memory for parameter combination: 9
Dimensions: 371 x 226 x 461mm

- reproducible, efficient grinding, mixing and homogenization in seconds
- powerful grinding by impact and friction, up to 30 Hz for up to 20 samples per run
- 3 different grinding modes (dry, wet or cryogenic)
- screw-top grinding jars for leak-proof grinding
- 9 SOPs can be stored
- wide range of accessories including various jar and ball sizes, adapter racks for single use vials and tubes, grinding tool materials, Cryo Kit

Applications	size reduction, mixing, homogenization, cell disruption, cryogenic grinding
Feed material	hard, medium-hard, soft, brittle, elastic, fibrous
Size reduction principle	impact, friction
Material feed size	≤ 8 mm
Final fineness	~ 5 µm
Batch size / feed quantity	Max. 2 x 20ml
No. of grinding stations	2
Setting of vibrational frequency	digital, 3 - 30 Hz (180 - 1800 min^{-1})
Typical mean grinding time	30 s - 2 min
Dry grinding	yes
Wet grinding	yes
Cryogenic grinding	yes
Self-centering clamping device	yes
Type of grinding jars	screw top design
Material of grinding tools	stainless steel
Grinding jar sizes	25 ml
Setting of grinding time	digital, 10 s - 99 min
Storable SOPs	9
Electrical supply data	100-240 V, 50/60 Hz
Power connection	1-phase

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		Protection code	IP 30
		Power consumption	150 W
		W x H x D closed	~371 x 266 x 461 mm
		Net weight	~ 26 kg
		Standards	CE
		Grinding Jars, Stainless Steel - 25 ml (2 numbers) Grinding balls, Stainless Steel - 15 mm Ø (8 numbers) Grinding balls, Stainless steel - 5 mm (200 pieces) Two year warranty after installations	

Assistant Registrar(S&P)