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Government of Nepal

Nepal Agricultural Research Council

National Agricultural Research Institute

National Plant Breeding and Genetics Research Center, Khumaltar

**Technical Specification of Tissue Lyser**

<b>Features</b>	<b>Specifications</b>
Disruption principle	High-speed shaking of samples in 1.5 ml collection tubes or 2 ml microcentrifuge tubes with stainless steel or glass beads
Features	Convenient and secure disruption process. Adapter sets optimized for high-throughput disruption. Wide range of accessories available (e.g., grinding jar set to process large samples). Reproducible results with difficult-to-lyse tissues. Appropriate for leaf, soft stem, and dry-seed sample
Kits compatible with instrument	All kits for purifying RNA/DNA/Protein
Protocol/main application on this instrument	Sample preparation/sample disruption
<b>Technical data</b>	<b>100–120/220–240 V, 50/60Hz; variable speeds from 3 to 30 Hz (180–1800 oscillations/minute)</b>
Technology	Bead Mill
Throughput	2 x 96 collection microtubes (1.2 ml) or 2 x 24 microcentrifuge tubes (2ml)
Typical run time	15 sec. - 2 x 3 minutes at 15–30 Hz
Disruption time	10 second to 99 minutes that can be set manually with keypad
Oscillation frequency	Should be adjusted in steps of 0.1 hz
Memory	Max 9 disruption parameters can/should be stored
Adapter set	One 2x24 adapter set and one 2x96 adapter set
Other requirement	Full installation, basic operation training and one year extra maintenance service after the expiry of warranty period