## Nonecontact Ultrasonic processor







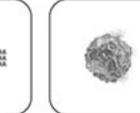
Model	Adapter specifications		
0.2ml*8holes	0.5ml*6holes 5ml*3holes		
0.5ml*18holes	5ml*18holes 15ml*15holes 50ml*5holes		
0.5ml*48holes	5ml*18holes 15ml*15holes 50ml*5holes 250ml*1holes		

\* The actual processing capacity is related to the sample capacity ratio, concentration, te-mperature, and state. Please refer to the actual experiment.

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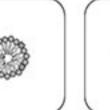


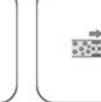






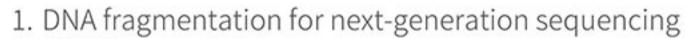












- 2. RNA fragmentation
- 3. Bacterial and cell lysis
- 4. ChIP assay (chromatin immunoprecipitation)
- 5. Sample preparation for high-throughput sequencing
- 6. Membrane protein extraction
- 7. Homogenization and emulsification
- 8. Ultrasonic treatment of precious reagents





## **Product Introduction**

Non-contact ultrasonic crusher, also known as cup crusher, is used for sterile crushing, and can break chromosomes and cells through centrifuge tubes. It is suitable for ChP, ChP-seq, RNA-seq, chromatin shearing and DNA shearing (for second-generation sequencing). It is tailored for the pretreatment of second-generation sequencing DNA samples and chromatin immunoprecipitation experiment samples. Compared with the traditional probe contact ultrasonic cell crusher, the non-contact sample can be broken in a sealed container, and no infectious flying dust is generated. The ultrasonic probe does not contact the sample, so as to avoid cross-contamination. Non-contact ultrasonic crusher can obtain incomparable quality, efficiency and safety with traditional ultrasonic methods.

It can test multiple samples at the same time, which is efficient; there is no wear or chipping, and each sample is in a separate, fully sealed tube to avoid cross-contamination; a cooling water circulation system can be selected, which is convenient for samples to ultrasonic at 4 °C water bath, the energy distribution is uniform, and the ultrasonic effect is complete; the ultrasonic parameters are set flexibly, the experimental steps are standardized, the ex-

Model	LAWSON98-III	LAWSON08-I	LAWSON08-II	
Ultrasound frequency(KHz)	19.5-20.5KHz (auto-tracking)			
Power	12~1200Wauto-adjustment	2200Wauto-adjustment	3200Wauto-adjustment	
Standard adapter	1.5/2ml*4 (holes)	1.5/2ml*16 (holes)	1.5/2ml*32 (holes)	
Optional adapter specifications	0.2ml*8/0.5ml*6	0.5ml*18/5ml*18	0.5ml*48/5ml*18/15ml*	
	/5ml*3 (holes)	/15ml*15/50ml*5 (holes)	15/50ml*5/250ml*1 (holes)	
Ultrasonic probe	Ф20mm	Ф60mm	Ф70mm	
Single ultrasonic time	0.1-99.9S			
Single gap time	0.1-99.9S			
Total time (ultrasonic + gap)	1-99H59M59S			
Temperature control range:*	0~100°C (optional low-temperature constant)			
Processing chamber ice bath feature	Not Supported	Supported	Supported	
Data storage	20 sets			
Alarm function	Temperature, time, overload, idle, overheat			
Voice alarm and prompt	Yes			
Weight	22kg	26kg	27kg	
Host size	140*330*210 (mm)	410*225*290 (mm)	410*225*290 (mm)	
Input power	110/220V 50/60Hz			

<sup>\*</sup>Note: Temperature probe is optional. For sample temperature control, you may choose to install a low-temperature constant-temperature device.

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