



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, temperature, and state. Please refer to the actual experiment.

1. DNA fragmentation for next-generation sequencing
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



LAWSON_Chou
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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-

	Technical	Parameters		
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 /5ml*3 (holes)	0.5ml*18/5ml*18 /15ml*15/50ml*5 (holes)	0.5ml*48/5ml*18/15ml* 15/50ml*5/250ml*1 (holes)
Ultrasonic probe		Φ20mm	Φ60mm	Φ70mm
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		

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