



| 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



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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-

| 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<br>/5ml*3 (holes)           | 0.5ml*18/5ml*18<br>/15ml*15/50ml*5 (holes) | 0.5ml*48/5ml*18/15ml*<br>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.