

# HSBS - 3024

Homogenizer System &  
Biological Sample Preparation System



12\*5ml  
for standard&Ultracool only



4\*15ml  
for standard&Ultracool only



24\*2ml  
for all model of ATL

EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

ATL homogenizer is an open, fast efficient high-throughput sample preparation system. It can deal with max. 24 samples per run. By using with our optimized reagents & kits, the ATL system can dispose various sources of samples, including soil, plant tissue, animal organs, bacteria, yeast, fungus, spore, paleontology specimen, etc. ATL is your best laboratory assistant for multiple research activities such as pharmaceuticals, biochemistry, environmentology, geology and so on.

ATL Series include three models for your choice:

- » Standard: Homogenizer;
- » UltraCool: Cooling homogenizer with auxiliary heating;
- » Ultimate: Cooling homogenizer with auxiliary heating and centrifuging function.

## ►► Description :

With its patented cooling function, the system can break the cytoderm rapidly, especially for the difficult and sensitive samples, such as RNA or protein, so to hold on the longer processing time at the lower temperature to release the genomic DNA, RNA or proteins easily. It adopts the advanced microprocessing technology to ensure the exact temperature control.

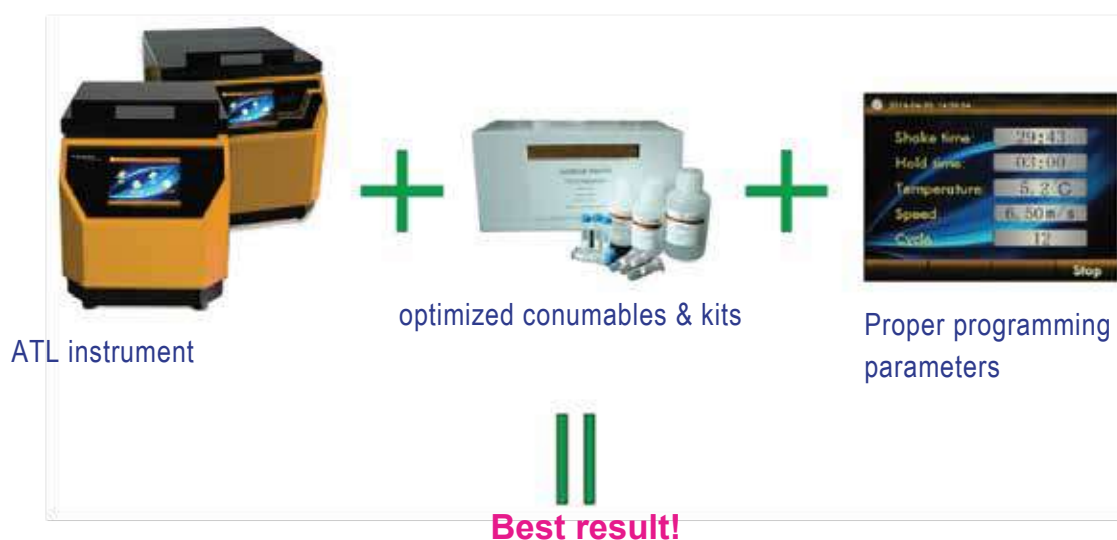
The Ultimate model, with the centrifuging function, enables the machine to centrifuge the sample after the first step of sample preparation so to get the target easily for your next step of the experiment of extraction and purification.

With the 5.7' colorful touch screen display, it is intuitive and convenient to set protocols and run up to 10 programs directly from the shortcut of the interface.

By using the enhanced locks, it is easy to change and fix the rotators for different kinds of sample tubes.

ATL is an open platform for various customized reagents. However the optimized ATL kits provide the Ready to use solution for your experiments.

## Easy and fast solution for your sample preparation:



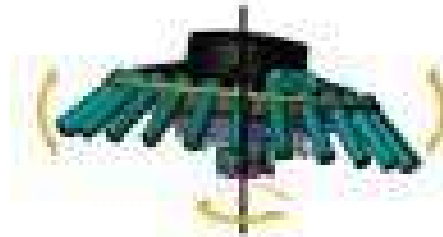
## ►► Grinding principle :

- » Physical method
- » Chemical method
- » Biological method

By three-dimensional high-speed motion, grinding beads shear and grate each other, using formula reagents to lyse cell wall/membrane as well as to protect the nucleic acid protein, to hence achieve the extraction of target DNA, RNA or protein.

## ►► Patented Technologies :

- » Long time sample processing
- » Cooling function
- » Sample processing with centrifugation

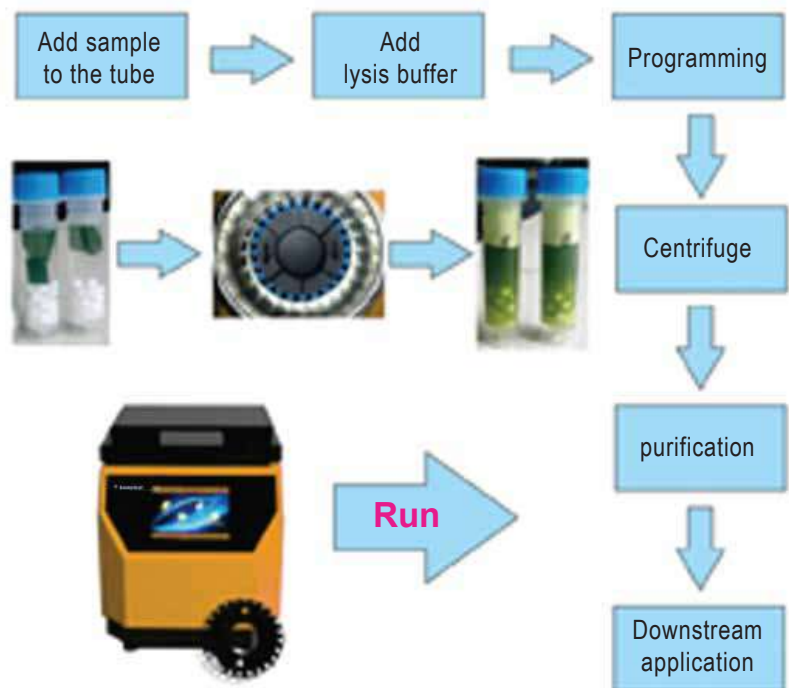


## ►► Applications :

- » Nucleic acid separation and purification
- » Sample lysis and preparation
- » Proteins Sample lysis and preparation

## ►► Fields :

- » Cancer
- » Agriculture
- » Forensic
- » Infectious diseases
- » Genomics
- » Metabolomics
- » Food Science
- » Plant Pathology
- » Proteomics
- » Soil and Environmental Sciences
- » Microbial environmental genomics



## ►► FEATURES :

- Timesaving
- Laborsaving
- High speed
- High throughput
- High repeatability
- Low noise ≤ 58db: brushless frequency conversion motor used.
- Safe, no contamination, maintenance free.
  - √ No need for hazardous materials such as liquid nitrogen;
  - √ No need for consumable parts;
  - √ Stainless steel chamber, easy to clean;
  - √ Complete isolation among samples to eliminate contamination.

►► **Ultimate- Max.6000rpm :**

- » Innovative axis: shaking & centrifuging;
- » Centrifuging soon after homogenization to get the supernatant directly;
- » A self-governed low-speed refrigerating centrifuge for specific samples.

►► **Sustaining up to 30min :**

- » Longer working time guarantees the sample yield for hard samples.

►► **Low to 2m/s :**

- » Especially good for genome preparation.



Easily fix the samples  
by a gently lock



Intuitive program



5.7' big colorful touch screen

►► **Specification :**

Model	HSBS-CL3024	HSBS-C3024	HSBS-3024
Sample capacity	24x2.0ml	24x2.0ml; 12x5.0ml; 4x15ml	
Vibration speed	2.0-6.5m/s, 0.05m/s change step		
Cooling function	yes	yes	-
Temp. control range	0~37°C		-
Centrifuging function	yes	-	-
Centrifuging speed	Max.6,000rpm	-	-
Program number	99		
Cycler number	Max.99		
Single max. time	99m59s		
Noise level	≤54dB (24x2ml rotor), ≤58dB (15x5ml rotor)		
Display screen	5.7' touch screen		
Open lid operation protection	yes		
Dimension	510x370x360mm (LxWxH)		380x280x330mm (LxWxH)
Power supply	110V~115V/60Hz, 220V~240V/50Hz		
Weight	32kg	30kg	18kg

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

## Our Products & Technologies



UV/VIS  
Spectro 2080+  
Double Beam



Infra FTIR



Optima Gas  
Chromatograph  
3007



Optima Gas  
Chromatograph  
2979 Plus



Flash  
Chromatograph



Atomic Absorption  
Spectrophotometer



Liquid Particle  
Counter



Optical Emission  
Spectrophotometer



DSC/TGA



Semi Auto Bio  
Chemistry Analyzer



HEMA 2062  
Hematology  
Analyzer



Micro Plate  
Reader/Washer



URINOVA 2800  
Urine Analyzer



Total Organic  
Carbon 3800



Fully Automated  
CLIA



NOVA-2100  
Chemistry Analyzer



PCR/Gradient PCR/  
RTPCR



TOC  
Analyzer



Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system



## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



**Analytical**  
**Foundation**

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



 **Analytical**<sup>®</sup>  
Technologies Limited

HPLC Solutions   MultipleLabs   Analytical Bio-Med   Analytical Distributors   Analytical Foundation (Trust)

**Corporate & Regd. Office:**  
Analytical House, # E67 & E68,  
Ravi Park, Vasna Road, Baroda,  
Gujarat 390 015. INDIA

T: +91 265 2253620  
+91 265 2252839  
+91 265 2252370  
F: +91 265 2254395

E: [info@hplctechnologies.com](mailto:info@hplctechnologies.com)  
[info@multiplelabs.com](mailto:info@multiplelabs.com)  
[info@analyticalgroup.net](mailto:info@analyticalgroup.net)  
[info@analyticalbiomed.com](mailto:info@analyticalbiomed.com)

W. [www.analyticalgroup.net](http://www.analyticalgroup.net)  
[www.hplctechnologies.com](http://www.hplctechnologies.com)  
[www.multiplelabs.com](http://www.multiplelabs.com)  
[www.ais-india.com](http://www.ais-india.com)

Sales & Support Offices:  
across the country :  
Distributors & Channel  
partners World Wide