GENFast Automated
DNA/RNA Extraction System

- Fast extraction : 96 samples in 30-45 min.
- Temperature control : 4°-120°, dual built-in cooling & heating module.
- Sample volume upto 1000 µl
- Open System: Compatible to third-party extraction kits.
- High Purity & High Yeild.
- Pre-programmed capability.
- Built-in Timing UV sterilization.
- Safe & Reliable.

Model No. : ILSGEN2001

CE IVD

ILS® YOUR PARTNER IN LIFE

+ 91 124 455 9800 - 99

info@imperialls.com

www.imperialls.com

GENFast

Instrument features

High-throughput automatic : Using our superior magnetic bead transfer technology, 96 magnetic bars work at high speed, you only need to click on the screen, 96 samples are completed in 20-40 minutes, and the sample can be processed up to 1000 copies per day. Customers with quantitative needs provide standardized solutions.

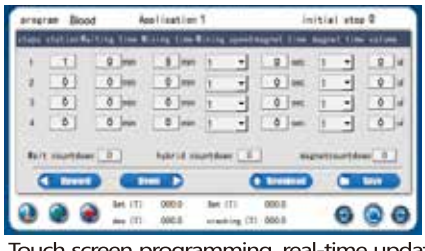
Multi-modular configuration : The 96-well module and the 24-well module are freely switchable. The 96-well module has a single-wellvolume of 2.2ml, and the 24-well modules have a single-well volume of 11ml. Customers no longer have to worry about the large amount of sample loading。

Temperature control : heating and cooling dual temperature control design with lysis and elution to complete the experiment efficiently, the heating module can quickly heat up to 120 ˚C, combined with the deep-well plate and 96 holes without temperaturedifference to ensure experimental uniformity. The cooling module can quickly cool the hole to 4 ˚C, and it is safe to store the nucleic acid without transferring it immediately.

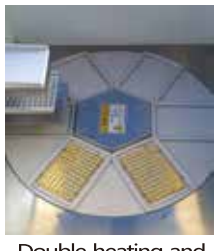
Intelligent operating system : The instrument is equipped with windows pad dual workingsystem, large-capacity memory, can store 700 programs, intelligent programming can let the device stop and run, do whatever you want, so that your experimental program is no longer monotonous. The external port can be incorporated into the sample library management system and is the best partner for sample library quality control。

Repeatability : 96 permanent magnets have been tested for thousands of times. The magnetic stability guarantees that the recovery rate of each magnetic bead is above 99%, and it is perfectly matched with the stirring sleeve. The working position, the hole spacing and the reagent plate reach the best status. In a reasonable operation mode, there will never be an overflow cross-contamination。

Application : Based on the above characteristics , this product is widely used in biological sample library for large sample quality control, large molecular sequencing platform, clinical testing, neonatal prenatal screening, model animal platform, genetically modified crop research.



Touch screen programming, real-time update and adjustment of operating procedures



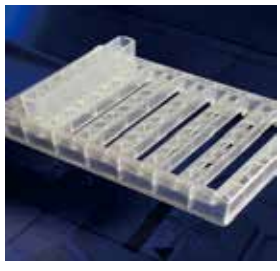
Double heating and cooling module

Gold-plated copper heating and cooling more quickly

96 magnetic bar, permanent magnet

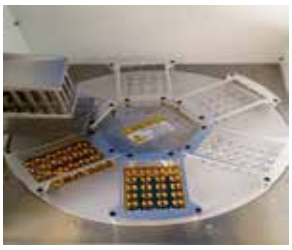
Disposable mixing sleeve and drip-proof baffle to prevent contamination

96 turntables

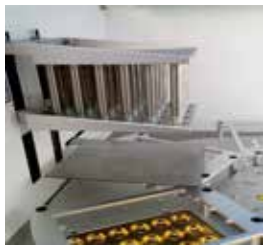


96-inserted module strip

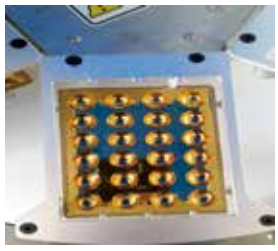
8 holes per strip, 6 strips at the same time, suitable for a small number of sample operations



24 large capacity modules (11ml capacity perhole, suitable for large samples)



24 magnetic bars



24 semiconductor heating and cooling module

24 magnetic bars and mixing sleeves

24 mixing sleeve and bottom slot

Flexible and variable reagent strip design

Instrument characteristics

Flexible and convenient

The device is compact in design and extremely convenient to operate. It can be freely programmed to complete the experiment quickly. The one-button extraction of DNA/RNA instruments, the 32 modules and the large-capacity 8 modules can be switched freely, and the working volume can reach 7ml.

Temperature control

By configuring the heating module to heat up to 120 °C quickly, you can also extend the low temperature module so that you don't have to rush to transfer the product and still maintain good biological activity.

Handling a wide range of sample types

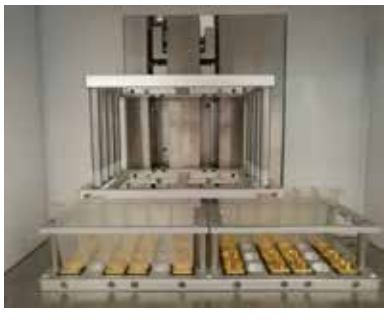
It can handle a wide variety of samples of tissues, various blood, serum, cells, body fluids, secretions, food, viruses, bacteria, and so on.

Open platform

The instrument can not only complete the experiment with more than 100 kinds of magnetic bead kits of the company, but also ensure that the reagents are completely open.

Application

This product is mostly used in scientific research platforms, university laboratories, hospital central laboratories, local disease prevention and control centers, food safety platforms, etc.



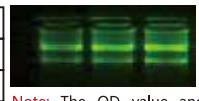
Nucleic acid automatic extractor experimental data

Total RNA extraction of 32 or 96 samples was completed in 35 minutes. Fully surpass **the centrifugal column portable method in terms of RNA extraction speed, yield, integrity, purity, etc.**

Tailor-made high-throughput RNA, DNA automated extraction program.Improve the technical level of your laboratory's nucleic acid extraction quality.

Case 1: Extracting mouse liver tissue RNA, loading 20-60mg, elution volume 50ul, using magnetic bead tissue total RNA extraction kit to extract results:

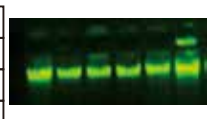
Sample number	Abs260	Abs280	Abs230	260/230	260/280	Sample concentration	Unit	Sample type
Mouse liver	29.472	14.885	15.35	1.92	1.98	1178.889	ng/ul	RNA
Mouse liver	29.642	15.438	15.43	1.96	1.92	1185.692	ng/ul	RNA
Mouse liver	17.205	8.902	8.598	2	1.93	688.1863	ng/ul	RNA



Note: The OD value and the order of the gel holes are the same, and the sample gradient is 20-60 mg.

Case 2: Plant sample, sample 100 mg, elution volume 120 ul.

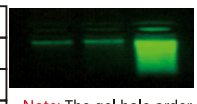
Sample number	Abs260	Abs280	Abs230	260/230	260/280	Sample concentration	Unit	Sample type
Rice 1	5.64	2.809	2.772	2.04	2.01	282.021	ng/ul	dDNA
Rice 2	5.695	2.825	2.705	2.11	2.02	284.7519	ng/ul	dDNA
Willow	6.63	3.487	3.535	1.88	1.9	331.5008	ng/ul	dDNA
Willow	7.085	3.737	3.809	1.86	1.9	354.2279	ng/ul	dDNA
Arabidopsis thaliana	8.997	4.347	3.874	2.32	2.07	449.8429	ng/ul	dDNA
Arabidopsis thaliana	8.828	4.275	3.814	2.31	2.06	441.4214	ng/ul	dDNA



Note: The gel hole order and OD value are the same.

Case 3: Amniotic fluid, chorion sample, sample volume 5ml-15ml centrifugation, elution volume 80ul.

Sample number	Abs260	Abs280	Abs230	260/230	260/280	Sample concentration	Unit	Sample type
Amniotic fluid	0.363	0.234	0.394	0.92	1.55	18.1727	ng/ul	dDNA
Amniotic fluid	0.462	0.293	0.39	1.18	1.57	23.0865	ng/ul	dDNA
chorion	4.621	2.689	3.042	1.52	1.72	231.044	ng/ul	dDNA



Note: The gel hole order and OD value are the same.

Case 4: Fecal sample, the sample amount is about 20 mg, and the elution volume is 120 ul.

Sample number	Abs260	Abs280	Abs230	260/230	260/280	Sample concentration	Unit	Sample type
1	1.438	0.760847	0.622511	2.31	1.89	71.8766	ng/ul	dDNA
2	1.16	0.637363	0.753247	1.54	1.82	57.9995	ng/ul	dDNA
3	0.978	0.531522	0.764063	1.28	1.84	48.896	ng/ul	dDNA

Note: The gel hole order and OD value are the same.

Case 5: A department of the Center for Disease Control and Infectious Diseases Extract animal tissue (liver) sample 10mg, 120ul elution

Sample number	Abs260	Abs280	Abs230	260/280	260/230	Sample concentration	Unit	Sample type
1	4.156	2.067	2.047	2.01	2.03	207.8	ng/ul	dDNA
2	3.278	1.647	1.497	1.99	2.19	163.9	ng/ul	dDNA
3	6.52	3.18	3.12	2.05	2.09	326	ng/ul	dDNA

Case 6: Extraction of human visceral tissue samples, sample 20 mg, 150 ul elution, using magnetic beads micro-cell/tissue genomic DNA extraction kit (pre-packaged)

Sample number	Abs260	Abs280	Abs230	260/230	260/280	Sample concentration	Unit	Sample type
Colon	3.015	1.616	1.408	2.14	1.87	150.8	ng/ul	dDNA
Colon	4.107	2.191	1.901	2.16	1.87	205.4	ng/ul	dDNA
esophagus	3.239	1.734	1.478	2.19	1.87	161.9	ng/ul	dDNA
esophagus	2.967	1.578	1.406	2.11	1.88	148.4	ng/ul	dDNA
lung	3.691	1.955	1.633	2.26	1.89	184.6	ng/ul	dDNA
lung	4.912	2.632	2.232	2.2	1.87	245.6	ng/ul	dDNA

Case 7: Saliva sample, 450 ul sample, 120 ul elution.

Sample number	Abs260	Abs280	Abs230	260/230	260/280	Sample concentration	Unit	Sample type
1	1.295	0.718	0.521	2.48	1.8	64.7529	ng/ul	dDNA
2	1.687	0.882	1.002	1.68	1.91	84.3294	ng/ul	dDNA
3	1.473	0.78	0.724	2.03	1.89	73.6371	ng/ul	dDNA

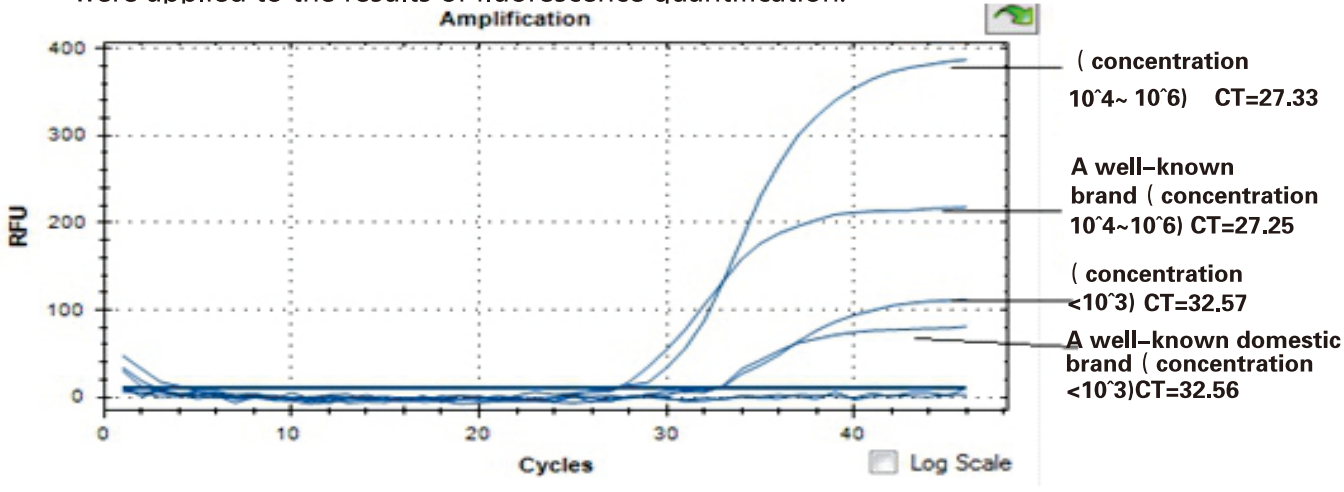
Case 8: Whole blood sample, 200 ul sample, 120 ul eluted.

Sample number	Abs260	Abs280	Abs230	260/230	260/280	Sample concentration	Unit	Sample type
1	2.204	1.172	1.109	1.99	1.88	110.2237	ng/ul	dDNA
2	2.186	1.173	1.105	1.98	1.86	109.313	ng/ul	dDNA
3	1.571	0.833	0.809	1.94	1.89	78.5717	ng/ul	dDNA

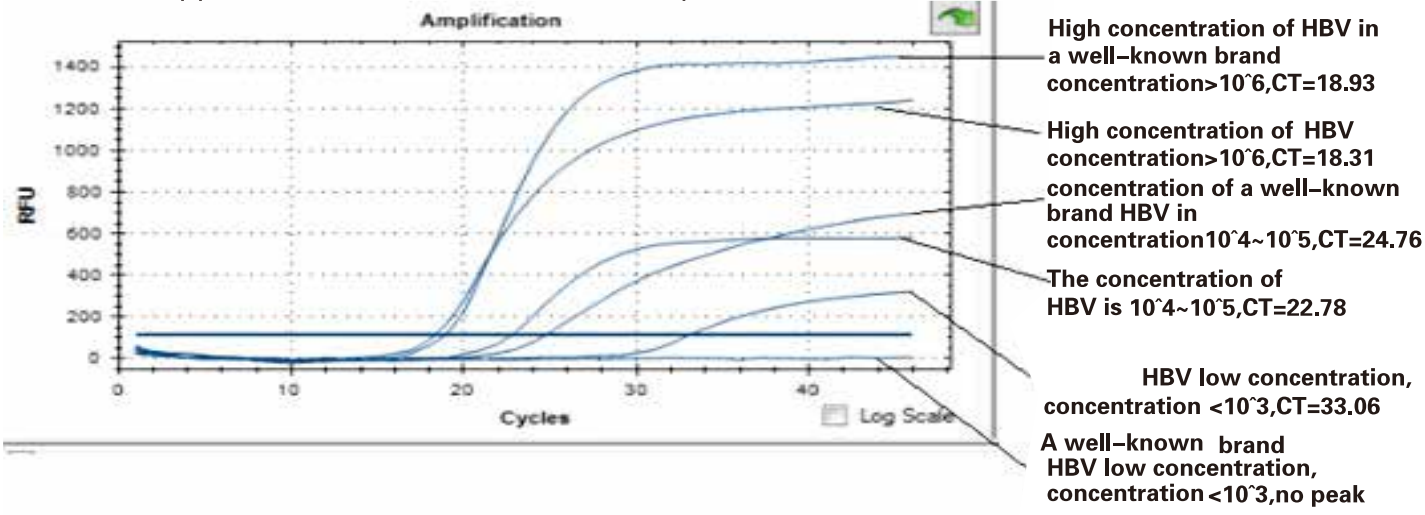
Case 9: 7-20 days of rat tail tissue samples, 10-20 mg sample, 120ul elution.

Sample number	Abs260	Abs280	Abs230	260/230	260/280	Sample concentration	Unit	Sample type
1	1.93	1.029	1.153	2	1.87	96.48	ng/ul	dDNA
2	3.1	1.627	1.623	1.91	1.91	155.01	ng/ul	dDNA
3	2.859	1.505	1.512	1.89	1.9	142.95	ng/ul	dDNA

Case 10: Nucleic acids extracted with the Hepatitis C Virus (HCV) RNA Extraction Kit were applied to the results of fluorescence quantification.



Case 11: The nucleic acid extracted with the Hepatitis B Virus (HBV) DNA Extraction Kit was applied to the results of fluorescence quantification.



Instrument Ordering Information:

ILSGEN2001: GENFast Automated DNA/RNA Extraction System (with all necessary accessories including UPS having backup of more than 1 Hour); CE-IVD certified

Contact us to get Price details.

+ 91 124 455 9800 - 99

IMPERIAL LIFE SCIENCES (P) LIMITED, 463 Pace City II, Sector - 37, Gurgaon - 122 001
Haryana, India E : info@imperialls.com www.imperialls.com

YOUR PARTNER IN LIFE