

Bonna-Agela, is dedicated to improve the future in Chromatography Science & to assist scientists worldwide in achieving their scientific goals by using chromatography products from Bonna-Aegla used in scientific discovery and analysis. Benefiting from years of research and product development, we are industry specialist in silica and polymer bonding technologies by which we produce solution in field of Sample Preparation, HPLC Columns and Preparative Purifications. We also cater Instrumentation for Sample Preparation and Purification for scientists interested in Atomization of their analysis processes.

Our core objective is to provide total solutions to Pharmaceuticals, Bioanalysis, Food Safety, Environmental & Clinical applications and scientist involved in these fields.

With our customers and industry, we earned reputation for innovative expertise, uncompromised quality maintain system, and comprehensive solution tailored to customer requirements from a decade. The very result of this is we have developed trust and faith among our customers and we are progressive towards developing new solutions for our customers.

Our main objective is to give our customers utmost importance and quick response.

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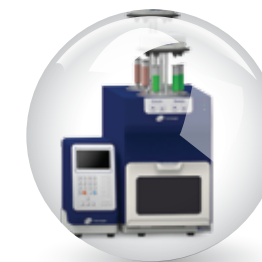
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Bonna-Agela

Sample Preparation Automated System



Official Website

Best Value
Guaranteed Product Quality
Innovation to Benefit Customers

Better Solutions for Chromatography

ABN: ZL-06104E



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Bonna-Agela Technologies 2017.10 Rev.1

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Not for use in diagnostic procedures.

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Automated SPE System

Superiority of Automation

- Walk-away solution to improve efficiency
- Excellent reproducibility and Reliability
- Human error free
- Integrated Design enhances safety



SPE-10 Automated SPE System

SPE-10 can process 6 samples in single run. Compact design without compromising performances saves your precious space in lab.

Features

- ▲ Processes 6 samples sequentially
- ▲ Compatible with different size of SPE cartridge
- ▲ Zero Cross-contamination.
- ▲ Friendly interface, use at ease
- ▲ Flexible configuration, up to 4 modular
- ▲ Ideal for analyzing pesticides, antibiotics, PAHS, PCB, SVOCs, drug, veterinary, and algal toxins

Qdaura® Automated SPE System

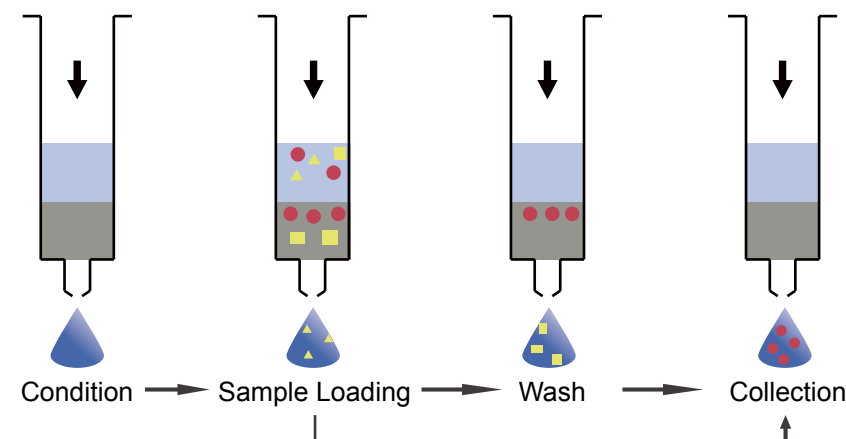
The Qdaura® automated system is specially designed to hold large sample processing. Positive pressure is gained via Agela's unique and pioneering sealing technology to achieve reproducible and reliable analysis results. Qdaura® could be good choice for product & food testing, also antibiotic residue detection.

Features

- ▲ High throughput with 4 channels, process 24 samples per run
- ▲ 5 solvents can be chosen
- ▲ Zero contact between sample and solvent leads to zero cross contamination
- ▲ Readable report format
- ▲ Trace level organics extraction in food, water and soil and forensic sample analysis
- ▲ Batch method editor
- ▲ 200 methods can be stored
- ▲ Over pressure and leakage alarm, stop to run when encounter clogged



SPE Working Procedure



Specifications

Item	SPE-10	Qdaura® Automated SPE System
Flow Rate	1-30 mL/min, ±2%	
Sample Capacity	6 samples per module, 4 modular at most	24 samples
SPE Cartridge Size (mL)	1/3/6/12	1/3/6/12/30
Sample Tube Volume(mL)	1/3/6/12/30/60	1/3/6/12/30
Sample Loading Volume	1 - 5000 mL	1 - 30 mL
Extraction Method	Positive pressure extraction	
Pressure Monitoring	Real-Time pressure monitoring, max pressure: 50psi	
SPE Steps	Condition/Load/Wash/Elute	
Fractionation	2 (10 mL/20 mL/40 mL/60 mL)	
Waste Collection	2 Waste Channels	1 Waste Channel
Control	Control Model	Software

SPE Automated System

SPE Automated System

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AZOFF SLE Automated Workstation

What is SLE?

Liquid-Liquid Extraction (LLE) is one of the most common sample preparation method using in Pharmaceutical, Food testing, Environmental monitoring, and Chemicals analysis. But the method was limited by a lot of disadvantages such as low efficiency, human error and turbid problem.

Solid supported Liquid-Liquid Extraction (SLE) is a new developed technology which can overcome all the drawbacks and transfer most of LLE method with high throughput and accuracy in method.

Why AZOFF?

Features and benefits

- ▲ Flexible design, optional 1-3 extraction modules
- ▲ Compact design, one control panel can master 1-3 extraction modules,
- ▲ High throughput, each module could process 8 samples in parallel, max. 24 in single run
- ▲ Positive Pressure ensures a steady flow rate which improves the sample recovery and RESULT stability
- ▲ Integrated Design ensure less exposure to the organic solvent

Specifications

Item	AZOFF		
Flow Rate Range	1 mL/min~60 mL/min		
Elution Volume	1 mL~999 mL		
Delayed Time Set	1 s~999 s		
Flow Rate Accuracy	±2%		
Fraction Tube	28/32# 100 mL Borosilicate glass reagent bottle with Glass Stopper		
Stored Methods	5		
Extraction Module	Customized configuration of 1-3 modular		
Order No.	AZO-8-I	AZO-8-II	AZO-8-III
Sample Quantity	8	16	24
Power	75 W	144W	213W
Voltage	220V/50-60HZ	220V/50-60HZ	220V/50-60HZ
Net weight	25 kg	49 kg	78 kg
Size(mm) (L×W×H)	530×435×743.5	960×435×743.5	1390×435×743.5

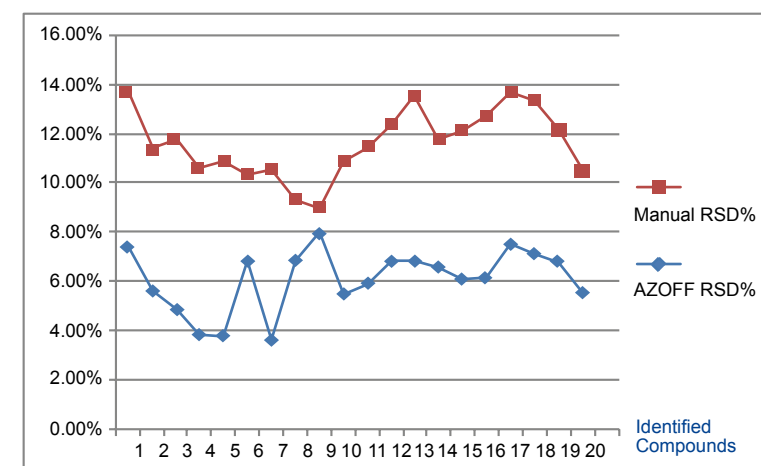
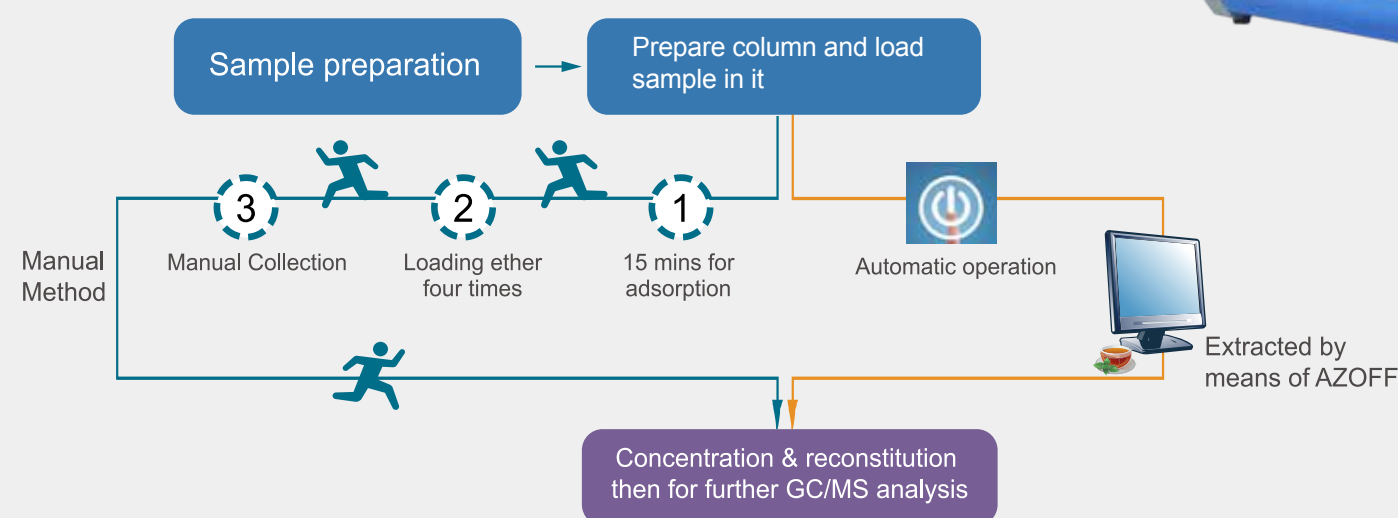
How is it?

Methods for determination of certain aromatic amines derived from azo colorants (EN 14362-1:2012) is a very typical application method with SLE.



Manual vs. AZOFF Operation

If time is money, then AZOFF save both for you.



20 kinds of AZO compounds

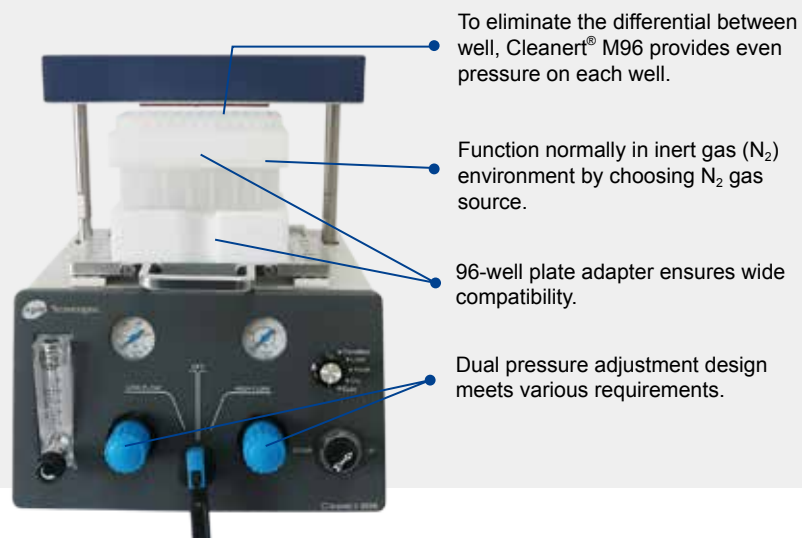
1	o-toluidine	12	4-Aminophenylether
2	2,4-Dimethylaniline	13	Benzidine
3	o-aminoanisole	14	4,4'-diaminodiphenylmethane
4	4-Chloroaniline	15	3,3'-dimethyl-4,4'-diaminodiphenyl methane
5	2-Methoxy-5-methylaniline	16	3,3'-Dimethylbenzidine; 4,4'-Bianisidine
6	2,4,5-Trimethylaniline	17	4,4'-THIODIANILINE
7	4-chloro-o-toluidine	18	3,3'-Dichlorobenzidine
8	2,4-Diaminotoluene	19	3,3'-Dimethoxybenzidine
9	2-Aminonaphthalene	20	4,4'-Methylene bis (2-chloroaniline)
10	4-aminobiphenyl		
11	p-aminoazobenzene		

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Positive Pressure SPE Device Series

Cleanert® M96 Positive Pressure Device

Cleanert® M96 is a positive pressure device specially designed for 96-well plates applications in Pharmaceutical and clinics with compact design and simple operation. It has been used for high throughput bio-sample preparation with protein precipitation plates, SPE plates, SLE plates, MAS plates as well as other plates in 96-well format.



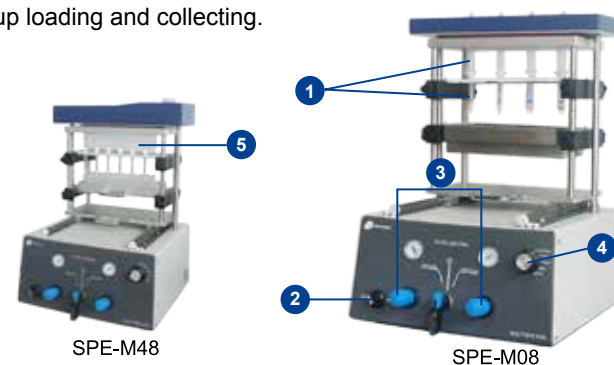
Items	Cleanert® M96
Part NO.	SPE-M96
Sample Volume	up to 2 mL 96-well plate
Gas Input	>0.5 Mpa
Pressure Switch	0-58 psi
Adapter	adjust the height of 96-well plate
Weight	20 kg
Size	300 mm×320 mm×332 mm (L×W×H)

SPE-M Positive Pressure Solid Phase Extraction Series

With the positive pressure technology, SPE-M Positive Pressure Solid Phase Extraction Series provides even pressure on each channel which overcomes the feedback when use a vacuum negative pressure device.

SPE-M Positive Pressure Solid Phase Extraction Series is purposely designed for routine lab sample preparation with single or double column operation, scale up loading and collecting. SPE-M08 can handle scale up water sample.

- 1 Two SPE columns in series
- 2 Switcher for automated sealing
- 3 Pressure adjustment
- 4 Run in-process indicator
- 5 SPE-M48 high-throughput by processing 48 samples simultaneously



Nitrogen Evaporator

Cleanert® V96 N₂ Evaporator

Bonna Agela Technologies introduces the latest sample preparation instrument innovation, Cleaner® V96 Nitrogen Evaporator with Unique Gas Heating System. This unique design directs N₂ gas evenly and directly into each well of the plate eventually gives clients a better concentration and reproducibility in return.

Cleanert® V96 Evaporator coupled with Cleanert® M96 Positive Pressure Device can make sample preparation process more efficient for high throughput analysis.

General Nitrogen Evaporator

NV08-G and NV24A-II Nitrogen Evaporator handle 8 and 24 samples respectively.



Specifications

Items	Cleanert® V96
Applicable	Various of 96-well plates
Gas flow rate	10 - 100 mL/min
Sample volume	Up to 2 mL collection plates (96-well)
Gas supply	Anti-corrosion (Standard); Acid-resisting (Option)
Temperature range	Gas temperature +5°C-80°C
Gas mode	To avoid waste of nitrogen gas it is allowed to entered only in heated mode
Evaporation heads	96 needles (Standard); 48 needles (Option)
Environmental condition	Temperature 10-30°C; Relative humidity ≤85%RH
Power	450 W
Voltage	110V/220V, 50~60Hz
Net weight	7 kg
Size	360 mm×287 mm×367 mm (L×W×H)