

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.

Bonna-Agela USA

2038A Telegraph Rd. Wilmington, DE 19808, USA
Tel: (302) 438 8798 Fax: (302) 636 9339
Email: info@agela.com

Bonna-Agela China

179 South Street, Teda West Zone, Tianjin 300462, China
Tel: +86 (22) 25321032 Fax: +86 (22) 25321033

Bonna-Agela India

G-212, 2nd Floor, Sector-63, Noida, Uttar Pradesh
Tel: 91120-4225466/67 Fax: 91120-4225465

Anylab Co.,LTD (South Korea)

Tel: +82-(0)2-2027-2628 Email: ianylab@naver.com

Purichem Corporation (South Korea)

Tel: +82-31-341-5507 Email: yh.shin@purichems.co.kr

Lab Lab Co.,Ltd (Japan)

Tel: +81-426-34-9531 Email: kyoko.hayami@lablab.co.jp

KM3 SCIENTIFIC CORPORATION (Taiwan)

Tel: +886-2-8522-8321 Email: km3.sci@msa.hinet.net

Science Integration Co.,Ltd (Thailand)

Tel: +66-2889-9029 Email: scienceintegration@yahoo.com

Anphuc Co.,Ltd (Vietnam)

Tel: +84-8-3773 4339 Email: anphuctech@gmail.com

Kinesis Ltd. (Italy, UK)

Tel: +44 (0)1480 212122 Email: sales@kinesis.co.uk

Kinesis GmbH (Germany)

Email: sales@kinesisgmbh.de

Kinesis Australia Pty Ltd. (Australia)

Email: sales@kinesis-australia.com.au

Genore chromatografia (Poland)

Tel: (+48) 504 187 588 Email: jacek.malinowski@genore.pl

JASCO Benelux B.V. (Netherland)

Tel: +31 30 6880355 Email: martin.donker@jasco.nl

JASCO France (France)

Tel: (+33)1 64 97 09 60 Email: jpwencker@jascofrance.fr

FILTER LAB PERU EIRL (Peru)

Tel: 6087842 Email: rmassa@gmail.com

CMS Equipments for Labortories (Brasil)

Tel: 55-19-3882-2514 Email: marcio@cmscientifica.com.br

Labware & Chemicals Ltd. (Bangladesh)

Tel: +88-02-8834102 Email: info@bdlwc.net

VWR International, LLC (USA)

Tel: (610) 386-1700

Thermo Fisher Scientific Inc. (USA)

Tel: Customer Service Phone (800) 766-7000

Inno Lab Engineering Sdn Bhd (530286-A) (Malaysia)

Tel: +603-80231108 Email: sales@ilab.com.my

A Chemtek Inc. (USA)

Tel: 508-856-7100 Email: fang.liu@achemtek.com

Beacon Innovation International Inc. (Canada)

Tel: 1 519 731 1265 Email: service@BIII.CA

I.S.I, Israel scientific instruments LTD (Israel)

Tel: 972-3-9232202 ext 8 Email: shani.cohen@isil.co.il

NATIONAL CENTER FOR MEDICAL SUPPLIES (Jordan)

Tel: 962-6-5858277 Email: ncms@go.com.jo

SPEKTROTEK AŞ (Turkey)

Tel: (+90)216 6885778 Email: info@spektrotek.com

ChromaTech (Egypt)

Tel: 002-02-26385393 Email: xgaman@yahoo.com

Stargate Scientific. (South Africa)

Tel: +27-11-675-7433 Email: elias@stargatescientific.co.za



Bonna-Agela

Sample Preparation Automated System



Official Website

Best Value
Guaranteed Product Quality
Innovation to Benefit Customers



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

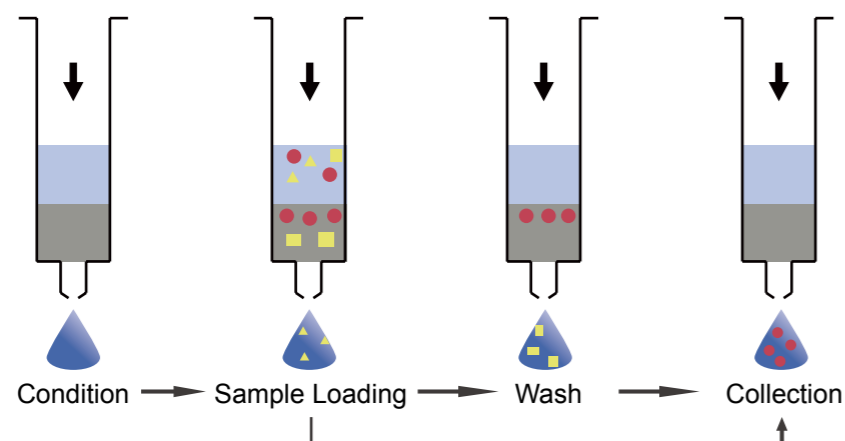
The Qdaura® automated system is specially designed to hold large sample processing. Positive pressure is gained via Agela's unique and pioneering sealing technology to achieve reproducible and reliable analysis results. Qdaura® could be good choice for product & food testing, also antibiotic residue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

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 |

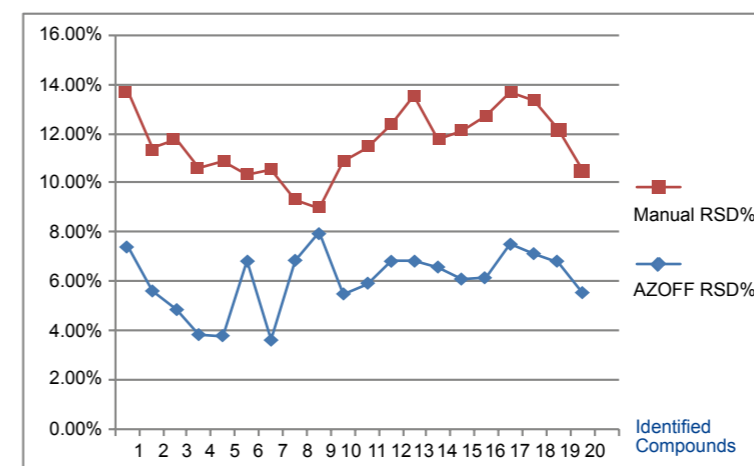
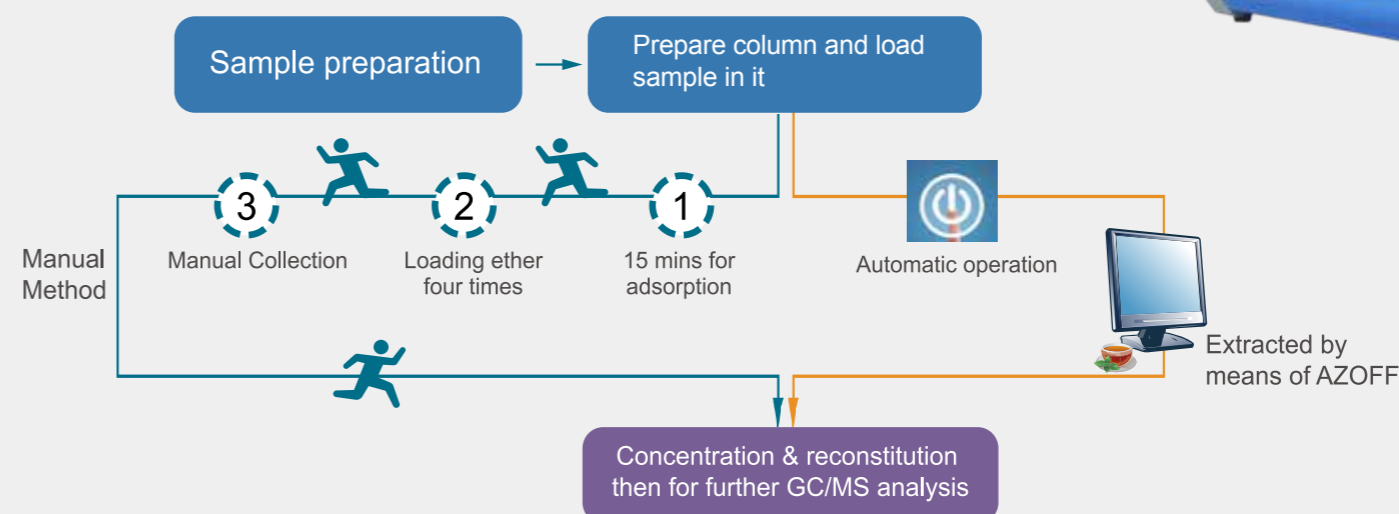
How is it?

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.



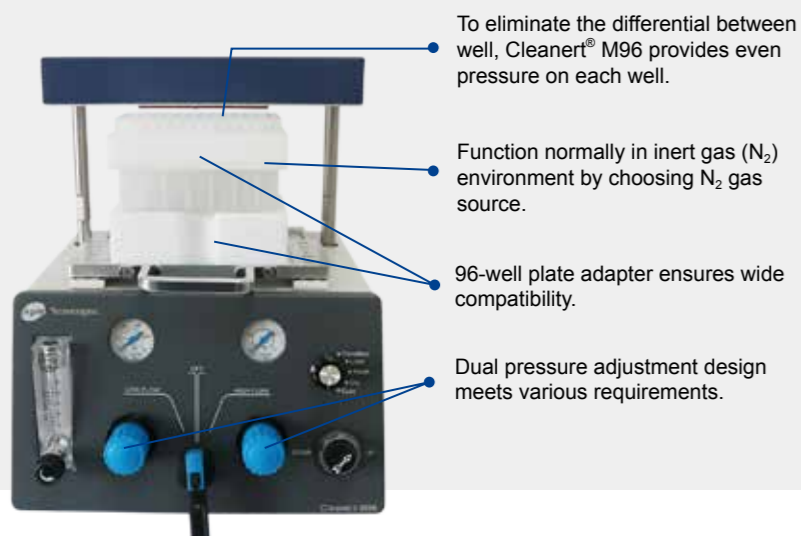
20 kinds of AZO compounds

| | | | |
|----|---------------------------|----|--|
| 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 | | |

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.



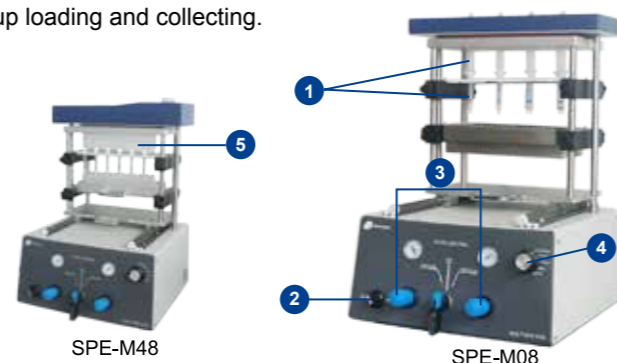
| Items | Cleanert® M96 |
|-----------------|------------------------------------|
| Part NO. | SPE-M96 |
| Sample Volume | up to 2 mL 96-well plate |
| Gas Input | >0.5 Mpa |
| Pressure Switch | 0-58 psi |
| Adapter | adjust the height of 96-well plate |
| Weight | 20 kg |
| Size | 300 mm×320 mm×332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



Standard : anti-corrosion coating to safe guard from general solvents;
Optional : acid resisting coating for acidic solvent.

Interchangeable heads can be cleaned easily in ultrasonic bath.

Highly precise injector needle adjuster to ensure high concentration of N₂ gas delivery.

Two individually temperature-regulated evaporation positions with a wide choice of well heads.

Ideally suited for stand alone operation in fume hood cupboard.

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) |