Preparative Chromatography Solutions
Performance and flexibility fitting your needs

Whatever the complexity or the scale of your purification process is, the BUCHI preparative chromatography systems are designed to fulfill your changing needs. Together with a broad range of high performance flash chromatography columns, we provide optimized solutions suited to your purification workflow.
“Quality in your hands” is the guiding principle that shapes our philosophy and our actions. It challenges us to provide outstanding services that are precisely tailored to your needs. This means that we must stay in close contact with our customers. That is why we keep in touch and continue to work very hard to understand you and your business even better.

We help you by providing high-quality products, systems, solutions, applications and services that offer you added value. This allows you to focus entirely on your processes and your work.

Core messages to our customers
BUCHI creates added value with “Quality in your hands”

Easy
You handle complex processes, do challenging work and want to focus on what is essential. We support you by providing carefully designed solutions as well as instruments and systems that are easy to operate.

Competent
You need products, systems, solutions, applications and services that are precisely tailored to your needs. We have the technological expertise and decades of experience needed to provide competent support and work with you to continually improve our market services.

Reliable
You want to be able to rely completely on your partner for products, systems, solutions, applications and services. We guarantee the quality and functionality of our equipment and will continue to help you quickly and efficiently whenever something does not operate to your satisfaction.
Cost-effective
You want to achieve the best possible results using efficient solutions. We help you to handle your jobs and processes economically. We strive to create a high level of economic benefit and maximum added value for you.

Safe
You are working in an environment in which safety is a high priority. By collaborating closely with you, we do everything in our power to make our products, systems, solutions, applications and services as safe as possible for people and the environment.

Global
You value personalized service and short communication channels. As an international family-owned business with our own subsidiaries and qualified distributors, we have a presence wherever our customers are located. Our local staff and the large number of satisfied customers around the world give you the assurance that you are working with the right partner.

Sustainable
You prefer a partner who acts responsibly when it comes to current environmental challenges. We support environmentally friendly processes and manufacture products that have a long service life. We utilize advanced technologies in order to conserve energy and water and leave the smallest environmental footprint possible.
For more than 30 years, BUCHI preparative chromatography equipment has been widely used for the purification of high value products. Compounds such as “Active Pharmaceutical Ingredients” (APIs) or specialty chemicals are generated by organic synthesis, biochemical process or extraction. The end result must always be further concentrated and purified. BUCHI chromatography solutions allow the purification of compounds from a few milligrams up to several hundred grams.

**Pharmaceutical**

- Purification of APIs after organic synthesis (Medicinal Chemistry)
- Screening of natural compounds: isolation of various components after extraction
- Biotechnology: purification after fermentation process

**Chemicals**

- Purification after synthesis
- Preparative isolation of a compound from a formulation

**Food**

- Nutraceuticals: isolation of dietary supplements from natural compounds

**Academia**

- Preparative chromatography education
- Purification after synthesis or extraction
Purification process

The isolation of one or more components from a complex mixture usually requires multiple steps if purity and high recovery rates are targeted. Flash chromatography is used to perform a first fast separation. The collected fractions are then later reinjected in a preparative HPLC system to achieve the target purity.

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<thead>
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<tbody>
<tr>
<td>Isocratic elution</td>
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<td>Gradient elution</td>
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<td>Detection</td>
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<tr>
<td>Automated fraction collection</td>
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<td>●</td>
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<tr>
<td>Automated system control</td>
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</table>

Discover our preparative chromatography solutions:
www.buchi.com/chromatography/solutions
You face an increasing number of samples to purify, whether after an organic synthesis or an extraction step. You would like to perform the whole purification process in your own laboratory in order to isolate the pure compounds faster for further analysis. Our Solution “Preparative Chromatography Dual” allows you to run both flash and preparative HPLC separations on the same system. It is equipped with an easy to use integrated touch screen software interface.
Your most important benefits

Fast purification of any sample at any scale

- One system for flash chromatography separation and subsequent preparative HPLC purification of the relevant fractions. Usage of preparative HPLC columns filled with 10 – 15 µm silica particles thanks to maximum pressure of up to 100 bar (1450 psi)
- Fast optimization of the flash separation with optimized software features (automatic gradient optimization, TLC data transposition)
- All compounds detected at once using the integrated UV detector together with the optional Evaporative Light Scattering Detector (ELSD)

High performance separation

- Full separation optimization capabilities with integrated quaternary gradient functionality
- Optimal fraction purity: very selective separation on highly efficient columns filled with small sized particles

Ease of use

- Prep HPLC as easy to use as flash chromatography
- Straightforward operation using integrated touch screen interface
- Intuitive handling thanks to graphical user interface designed for purification applications
- Easy connection of flash cartridges, glass columns or preparative HPLC columns

Your solution “Preparative Chromatography Dual”

- PrepChrom C-700 system: quaternary gradient pumping system, 250 mL/min, 100 bar (1450 psi), liquid or solid sample injection, UV detection, fraction collection
- ELS detector C-650
- Sepacore® Flash cartridges
- Glass columns
- Prep HPLC columns

- Reference applications
- Laboratory chromatography guide
- Customized application support
- Practical workshops, trainings and seminars
- Minimized downtime thanks to our service hotline

Find short notes of our applications and workshop at: www.buchi.com/Chromatography
More detailed application notes are available upon request
You have complex samples such as extracts of natural compounds to purify and need to scale up the purification process in order to cope with a large sample load. The Sepacore® X50 Flash Chromatography system provides an optimum flexibility to use high efficiency columns whatever the packing and column size is.
Your most important benefits

High performance flash purification

- High efficiency at up to 50 bar (725 psi). No limitation in selection of columns for normal/reverse phase separation mode (incl. small particle size silica)
- Time saving when optimizing the detection conditions with the simultaneous monitoring of 4 wavelengths in UV-Vis range
- Recognition of eluting compounds with on-line UV scan
- Every single compound can be collected thanks to the multisignal monitoring for peak detection and fraction collection

Flexible

- Easy modular system expansion: control via integrated touch screen or separate computer
- Possibility to add an additional fraction collector for extended collection capacity, ELS universal detection
- Free choice of fraction collection vessel and pattern to suit changing application requirements

Scalable

- Sample injection scalable from a few milligrams up to hundred grams on flash cartridges up to 800 g or glass columns
- Stable performance when scaling up using a flow rate up to 250 mL/min

Your solution «Preparative Chromatography Versatile»

- Sepacore® X50 system including: Binary gradient pumping system 250 mL/min, 50 bar (725 psi), liquid or solid sample injection, UV-Vis detection, fraction collection, Control Software
- Sepacore® prepacked flash cartridges*
- Glass columns
- ELS detection

- Reference applications
- Laboratory chromatography guide
- Customized application support
- Practical workshops, trainings and seminars
- Minimized downtime thanks to our service hotline

* Optional self-filling of empty cartridges with the Cartridger®

“The high pressure rating of the Sepacore® system allows to reproduce some HPLC methods, such as for the preparative separation of diastereoisomers.”

Provider of products and services for the pharmaceutical industry, UK
You routinely purify your samples on an open glass column and have to cope with a limited resolution and a long separation time. As a first step toward automation, we offer a small system allowing to control the flow rate and the eluent composition. The «Preparative Chromatography Easy» purification system addresses the requirements specific to the isolation of compounds from a synthesis mixture.
Your most important benefits

Improved separation

- Fine-tuned separation efficiency using gradient elution
- Controlled separation optimization with precise monitoring of the eluent composition
- Increased purity of the collected fractions with a higher resolution of the separation

Time and money savings

- Reduced elution time from hours to minutes with controlled flow rate and solvent composition allowing to reduce the fraction volumes for a faster evaporation
- Decreased purification cost with lower solvent consumption
- Low initial investment with upgrade possibilities

Easy and safe

- Intuitive control of pumping parameters: no training required
- Minimized solvent exposure

Your solution «Preparative Chromatography Easy»

- Sepacore® «Easy Synthesis» purification system including: Binary gradient pumping system 250 mL/min 10 bar (145 psi)*, Injection valve (up to 5 ml sample), System stand with cartridge holder and connectors, Set of silica flash cartridges
- Sepacore® prepacked flash cartridges**
- Fraction collection racks
- Reference applications
- Laboratory chromatography guide
- Customized application support
- Practical workshops, trainings and seminars
- Minimized downtime thanks to our service hotline

* Similarly, the «Easy Extract» purification system allows you to purify larger sample volumes on glass column at a pressure up to 50 bar (725 psi)
** Optional self-filling of empty cartridges with the Cartridger®

Find out more about the Sepacore® purification systems:
www.buchi.com/purification-systems
Solution «Preparative Chromatography Starter»
Efficient and upgradable purification start-up system

You are looking for a cost-effective yet high performance initial system to run your purifications which could later evolve with your needs. We provide a basic flash pumping system allowing you to take full advantage of your columns’ separation potential.
Your most important benefits

Cost effective
- Save time running unattended separations
- Decrease solvent consumption by reducing elution time
- Controlled flow rate and elution composition allow to significantly reduce the separation time and consequently the solvent consumption

Easy to use
- Straightforward user interface: easy programming of parameters, no training required
- Easy maintenance: all connections and functional parts are easily accessible
- Avoid running out of solvent: the monitoring of the solvent consumption prevents the column from getting dry

Upgradable
- Gradually upgrade the configuration from a manual to a fully automated chromatography system
- Modular system expands according to budget and applications:
  - Basic isocratic flash system
  - Gradient flash system
  - Gradient flash system including detection and fraction collection, with or without computer control

Your solution «Preparative Chromatography Starter»

- Pumping module, up to 250 mL/min, 10 bar (145 psi)*
- Glass columns
- Cartridger® and empty cartridges

- Reference applications
- Laboratory chromatography guide
- Customized application support
- Practical workshops, trainings and seminars
- Minimized downtime thanks to our service hotline

* Optional pumping module up to 50 bar (725 psi)

“The easier, more flexible, unsupervised instrument requires less time and manpower to do efficient research.” Dr. XianWen Yang, Professor of South China Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, China
## The best solution for your need
Comparison by customer needs, application and characteristics

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>«Preparative Chromatography Dual»</td>
<td>6</td>
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<tr>
<td>«Preparative Chromatography Versatile»</td>
<td>8</td>
</tr>
<tr>
<td>«Preparative Chromatography Easy»</td>
<td>10</td>
</tr>
<tr>
<td>«Preparative Chromatography Starter»</td>
<td>12</td>
</tr>
</tbody>
</table>

### Your needs
- **Throughput**
- **Automation**
- **Modularity**
- **Flexibility (applications)**
- **Scale up**
- **Compactness**
- **Economical**

### Characteristics
<table>
<thead>
<tr>
<th></th>
<th>PrepChrom C-700</th>
<th>Sepacore® X50</th>
<th>Easy Purification</th>
<th>Basic Flash</th>
<th>Pump C-601</th>
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<tbody>
<tr>
<td><strong>Maximum pressure bar (psi)</strong></td>
<td>100 (1450)</td>
<td>50 (725)</td>
<td>10 (145) or 50 (725)</td>
<td>10 (145) or 50 (725)</td>
<td>10 (145) or 50 (725)</td>
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<tr>
<td><strong>Maximum flow rate (mL/min)</strong></td>
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<td>250</td>
<td>250</td>
<td>250</td>
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<td><strong>UV detection</strong></td>
<td>200 – 600 nm</td>
<td>200 – 840 nm</td>
<td>4 wavelength</td>
<td>4 wavelength</td>
<td></td>
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<tr>
<td>UV-Vis Detector C-640</td>
<td>ELS Detector C-650</td>
<td>Fraction Collector C-660</td>
<td>Sepacore® Control Software</td>
<td>Cartridge C-670</td>
<td>Glass columns</td>
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<table>
<thead>
<tr>
<th>Maximum pressure bar (psi)</th>
<th>100 (1450)</th>
<th>50 (725)</th>
<th>10 (145) or 50 (725)</th>
<th>10 (145)</th>
<th>&gt; 300 (4300)</th>
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<tbody>
<tr>
<td>Maximum flow rate (mL/min)</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
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</tbody>
</table>

200 – 840 nm
4 wavelength

1 Including Control Unit C-620  2 Included in X50  3 Variable with column size  4 When equipped with flow splitter
Flash chromatography column for any solution
Choose the column for your need

You have to deal with a large variety of samples in terms of complexity, purity or polarity and the amount of sample to purify may also vary to a large extent. The type of columns you select must not only allow you to perform the separation, but also be compatible with your economical requirements. We have a column for almost any flash chromatography application: prepacked or empty cartridges, glass columns.

Time and cost savings: Sepacore® Flash cartridges

Speed up your purification process
- Optimized separation in only one run: high resolution separation with high quality silica and optimized packing process
- Fast separation with high flow rate: minimized pressure build-up thanks to a tight range of silica particle size

Efficient separation at controlled cost
- Ready to use cartridge: no need to fill a column for each separation
- Purification performed at once: always one cartridge available for your application with the broad range of sizes and packing types

Broad range and extensive choice of sorbents:
From 4 g up to 330 g, plus 800 and 1500 g for silica and C18. High performance silica HP (15 – 40 µm) for challenging separations

<table>
<thead>
<tr>
<th>Packing (g)</th>
<th>4</th>
<th>12</th>
<th>25</th>
<th>40</th>
<th>80</th>
<th>120</th>
<th>220</th>
<th>330</th>
<th>800</th>
<th>1600</th>
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<tbody>
<tr>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Silica HP</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
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<tr>
<td>C18</td>
<td>●</td>
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<td>●</td>
<td>●</td>
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<tr>
<td>Cyano</td>
<td>●</td>
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<td>●</td>
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<td>●</td>
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<td>●</td>
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<tr>
<td>Diol</td>
<td>●</td>
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<td>●</td>
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<td>●</td>
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<tr>
<td>Cation exchange</td>
<td>●</td>
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</table>
Ultimate flexibility with optimized economy: self-packed cartridges

Cartridger®: a unique solution for fast and easy packing of polypropylene cartridges
- Less than a minute required to pack a cartridge
- Homogeneous packing: patented process using fluidized silica provides high performance cartridges

Flexible and cost saving solution
- Free choice of silica
- On demand cartridge packing: no storage
- Reusable polypropylene cartridges

Visibility and scale-up: Glass columns

Visibility
- Follow up of the separation of colored compounds
- Visual observation of the packing status

Maximum scale up flexibility
- Sample loading up to more than 300 g
- High efficiency purification with back pressure up to 50 bar
- Free choice of sorbent

Broad range to suit most applications
Glass column size (g), (estimation for silica 40 – 63 µm)

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>100</th>
<th>230</th>
<th>460</th>
<th>920</th>
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<tbody>
<tr>
<td>15</td>
<td>9</td>
<td>20</td>
<td>40</td>
<td>80</td>
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<tr>
<td>26</td>
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<td>130</td>
<td>260</td>
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<td>49</td>
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<td>230</td>
<td>460</td>
<td>920</td>
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<td>70</td>
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<td>470</td>
<td>940</td>
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<td>100</td>
<td>-</td>
<td>935</td>
<td>1850</td>
<td>3700</td>
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</tbody>
</table>
What are the benefits of a medium (50 bar/725 psi) or high pressure (100 bar/1450 psi) pumping system?

It allows running reversed phase separations even at high flow rates. The solvents used in reversed phase applications (such as water/MeOH) have a higher viscosity than the ones used for normal phase separations: in particular the mixtures of water and methanol have a viscosity twice as large as water alone. This is the reason why only a medium pressure pump can be used for high scale reversed phase purifications.

Such a pressure is also useful to work with smaller particle size columns: BUCHI Silica HP is 15 µm instead of 40 – 63 µm for other standard packing materials and the back pressure generated significantly grows when the particle size decreases:

\[ \text{Back pressure} = \frac{k}{\text{particle size}^2}. \]

What are the upgrade possibilities of the BUCHI Sepacore purification solutions?

The unique modularity of the Sepacore® systems allows you to gradually upgrade your configuration from a manual to a fully automated chromatography system. Each module can be individually controlled and the initial system expanded according to budget and applications.
What is the advantage of the silica HP cartridges?

The Sepacore® silica HP sorbent is designed for challenging separations or when a higher purification throughput is required. Decreasing the sorbent particle size brings the following advantages:

- High separation efficiency for difficult separations
- Higher throughput with larger flow rates and same efficiency
- Higher loading capacity

The following example illustrates the benefits of using the Silica HP sorbent compared to the standard Silica:

a) Dibutylphthalate  
b) Diethylphthalate  
c) Dimethylphthalate

<table>
<thead>
<tr>
<th></th>
<th>Sepacore® Silica 4 g</th>
<th>Sepacore® Silica HP 4 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of theoretical plates N</td>
<td>82</td>
<td>185</td>
</tr>
</tbody>
</table>

Separation of dimethyl-, diethyl- and dibutylphthalate  
Hexane/Ethyl acetate 80/20, 10 mL/min

How many times can a flash cartridge be reused?

Generally the silica flash cartridges cannot be reused because some compounds might bind to the packing and potentially contaminate a further separation. However, the same compound can be reinjected several times (usually up to 5 times) on the Sepacore® Flash cartridges because of the high quality of the packing process. The cartridges packed with functionalized silica (C18, Diol, Amine, Cyano) can be reused several times if the column was properly rinsed at the end of the separation.
Complete your preparative chromatography portfolio
Complementary and related products

The following products are the ideal complements to your purification system. Most of our customers use them in their isolation and purification process.

**Laboratory Rotary Evaporator**

The Rotavapor® R-300 is a comprehensive rotary evaporation solution with sophisticated operating modes to safely evaporate your compounds to dryness.

**Parallel Evaporator**

The Syncore® Analyst parallel evaporator efficiently and safely evaporates the fractions collected with your preparative chromatography system.

**Industrial Rotary Evaporator**

Use the BUCHI industrial rotavapers R-220 SE or R-250 for solvent recycling when performing large scale purifications.

**Soxhlet Extraction**

Automate your solid-liquid extraction process using the Extraction Unit B-811.

**SpeedExtractor**

Optimize your extraction process with the Speed-Extractor E-914 or E-916, the best in its class for pressurized extraction.

**Melting Point**

Check the purity of your compounds using the M-560 or M-565 Melting Point product for melting point or boiling point determination.
The Rotavapor® R-300 is a comprehensive rotary evaporation solution with sophisticated operating modes to safely evaporate your compounds to dryness.

The Syncore® Analyst parallel evaporator efficiently and safely evaporates the fractions collected with your preparative chromatography system.

Use the BUCHI industrial rotavapors R-220 SE or R-250 for solvent recycling when performing large scale purifications.

The Vacuum Pump V-300 is a chemically resistant PTFE diaphragm pump. It impresses with its silent and economical operation.

Sustainable cooling in accordance with economical and ecological needs is achieved with the Recirculating Chiller F-308 and F-314.

For optimal extraction, prepare your sample using the B-400 Mixer for an efficient homogenization.

The Vacuum Pump V-300 is a chemically resistant PTFE diaphragm pump. It impresses with its silent and economical operation.

Sustainable cooling in accordance with economical and ecological needs is achieved with the Recirculating Chiller F-308 and F-314.

For optimal extraction, prepare your sample using the B-400 Mixer for an efficient homogenization.

The Mini Spray Dryer B-290 is the product of choice for the quick and gentle drying to powder of liquid solutions.

The Nano Spray Dryer B-90 revolutionizes today’s spray drying possibilities with the unique ability to generate particle sizes in the nano range for milligram sample quantities at high yields.

Encapsulate your active ingredients in a matrix for protection or controlled release using the Encapsulator B-390 or B-395 Pro.
Support and customer service
From feasibility to preventive maintenance

You value an efficient and personalized service. Our network of professional application specialists and service technicians as well as a large number of satisfied customers around the world give you the assurance that you are working with the right partner.

Improve your applications
A team of highly qualified specialists can support you for application development. Some applications and publications are available on our web site as examples to help you find the right configuration and separation parameters for your samples.

Discover our application:
www.buchi.com/applications

Learn more about Chromatography
More than 30 years of experience in preparative chromatography are summarized in the BUCHI Laboratory Chromatography Guide. This reference book covers all important topics such as stationary phases, column packing, mobile phases, detection, upscaling.

Find more information:
www.buchi.com/chromatography

Discover our numerous case studies
BUCHI offers over 130 different case studies. By using real information, the online case studies bring to life the complexities of business and give you an understanding of the wide range of the applications supported by our products, systems, solutions and services.

Discover our case studies:
www.buchi.com/casestudies
Profit from workshops, trainings and seminars
We regularly offer practical seminars and workshops, often in cooperation with other partners in the field of sample preparation and analysis. Customer contributions thereby underline how our solutions facilitate the daily routine. We also attend many local and international scientific and industrial congresses.

Find an overview of our activities:
www.buchi.com/events

Use your product most effectively
We help you to set your product properly into operation. We provide thorough Installation/Operation Qualification (IQ/OQ) services to ensure compliance with FDA, GLP/GMP standards or GAMP guidelines. Whether it is because of an initial installation, requalification or relocation, we provide professional compliance verification.

Find out more about our services:
www.buchi.com/service-support

Minimize downtimes
Avoid products downtimes with preventative maintenance and tailored service packages. We offer a product warranty of two years and guarantee ten years of spare parts availability.

Get in touch with us:
www.buchi.com/warranty

Global Network
Our subsidiaries and qualified distribution partners ensure proximity where ever you are. Since we are familiar with your requirements, we use our experience and knowledge to provide first-rate solutions.

Get in touch with us:
www.buchi.com/worldwide
BUCHI Affiliates:

Europe

Switzerland/Austria
BUCHI Labortechnik AG
CH – 9230 Flawil
T +41 71 394 63 63
F +41 71 394 65 65
buchi@buchi.com
www.buchi.com

Benelux
BUCHI Labortechnik GmbH
Branch Office Benelux
NL – 3342 GT Hendrik-Ido-Ambacht
T +31 78 684 94 29
F +31 78 684 94 30
benelux@buchi.com
www.buchi.be

France
BUCHI Sarl
FR – 94656 Rungis Cedex
T +33 1 56 70 62 60
F +33 1 46 86 00 31
france@buchi.com
www.buchi.fr

Germany
BUCHI Labortechnik GmbH
DE – 45127 Essen
T +800 414 0 414 0 (Toll Free)
T +49 201 747 49 0
F +49 201 747 49 20
deutschland@buchi.com
www.buechigmbh.de

Italy
BUCHI Italia s.r.l.
IT – 20010 Cornaredo (MI)
T +39 02 824 50 11
F +39 02 575 12 855
italia@buchi.com
www.buchi.it

Russia
BUCHI Russia/CIS
Russia 127287 Moscow
T +7 495 36 36 496
F +7 495 98 10 520
russia@buchi.com
www.buchi.ru

United Kingdom
BUCHI UK Ltd.
GB – Oldham OL9 9QL
T +44 161 633 1000
F +44 161 633 1007
uk@buchi.com
www.buchi.co.uk

America

Brazil
BUCHI Brasil Ltda.
BR – Vairinhos SP 13271-200
T +55 19 3849 1201
F +55 19 3849 2907
brasil@buchi.com
www.buchi.com

USA/Canada
BUCHI Corporation
US – New Castle, DE 19720
T +1 877 692 8244 (Toll Free)
T +1 302 652 3000
F +1 302 652 8777
us-sales@buchi.com
www.mybuchi.com

Asia

China
BUCHI China
CN – 200052 Shanghai
T +86 21 6280 3366
F +86 21 5503 8821
china@buchi.com
www.buchi.com.cn

India
BUCHI India Private Ltd.
IN – Mumbai-400 055
T +91 22 667 75400
F +91 22 667 18986
india@buchi.com
www.buchin

Indonesia
PT. BUCHI Indonesia
ID – Tangerang 15321
T +62 21 537 62 16
F +62 21 537 62 17
indonesia@buchi.com
www.buchi.co.id

Japan
Nihon BUCHI K.K.
JP – Tokyo 110-0008
T +81 3 3821 4777
F +81 3 3821 4555
nihon@buchi.com
www.nihon-buchi.jp

Korea
BUCHI Korea Inc.
KR – Seoul 153-782
T +82 2 6718 7500
F +82 2 6718 7599
korea@buchi.com
www.buchi.kr

Malaysia
BUCHI Malaysia Sdn. Bhd.
MY – 47301 Petaling Jaya,
Selangor
T +60 3 7832 0310
F +60 3 7832 0309
malaysia@buchi.com
www.buchi.com

Singapore
BUCHI Singapore Pte. Ltd.
SG – Singapore 609919
T +65 6566 1175
F +65 6566 7047
singapore@buchi.com
www.buchi.com

Thailand
BUCHI (Thailand) Ltd.
TH – Bangkok 10600
T +66 2 862 08 51
F +66 2 862 08 54
thailand@buchi.com
www.buchi.co.th

BUCHI Support Centers:

South East Asia
BUCHI (Thailand) Ltd.
TH-Bangkok 10600
T +66 2 862 08 51
F +66 2 862 08 54
bacc@buchi.com
www.buchi.com

Middle East
BUCHI Labortechnik AG
UAE – Dubai
T +971 4 313 2860
F +971 4 313 2861
middleeast@buchi.com
www.buchi.com

Latin America
BUCHI Latinoamérica Ltda.
BR – Vairinhos SP 13271-200
T +55 19 3849 1201
F +55 19 3849 2907
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