Our main objective is to help you free up time to focus on your research and analysis. We commit to delivering innovative product and service solutions helping you mitigate against potential business risks and ultimately improve your return on investment.

We will help you to ...

- Achieve cost savings
- Improve productivity and efficiencies
- Ensure security of supply and compliance support
- Source premier products from market leaders
- Adopt Fisherbrand Quality, Reliability, Value.
- Access information at your fingertips
- Find the best logistics solutions for you
- Leverage a strong pan-European infrastructure
- Support you in solving your daily lab challenges with our customer service and product support teams

... Enabling customer innovation and productivity

Fisher Scientific’s trusted, well-established and proprietary product range, Fisherbrand, is committed to providing quality products at affordable prices. Fisherbrand offers a broad selection of laboratory supplies and consumables covering a diverse range of applications such as chromatography, liquid handling, electrophoresis, pH and electrochemistry. It’s the smart way to achieve cost savings over branded products without having to compromise on quality.

In addition to the extensive Fisherbrand range, Fisher Scientific is your partner of choice for chemicals and bioreagents. Fisher Chemical and Fisher BioReagents deliver convenience, quality and consistency and are the leading provider of chemicals and bioreagents to many research sectors, such as academia, pharmaceuticals, biotechnology and healthcare.

- Fisher Chemical offers more than 4,000 chemicals of the highest quality, including ‘dry’ reagents, ready made solutions and high purity solvents. All chemicals are ISO 9001:2008 certified and undergo rigorous quality assurance and testing procedures, ensuring excellent lot-to-lot and bottle-to-bottle consistency. Supported by a clear and simple grade and application structure, choosing the product that best suits your requirements is easy.
- Fisher BioReagents offers over 1,000 products dedicated to molecular biology research, biochemistry and cellular biology. It is your single source for high purity products.

Together Fisherbrand, Fisher Chemical and Fisher BioReagents offer reliable and essential laboratory products, helping you to produce your best work each and every day.

New products are constantly being introduced into the Fisherbrand family. For the full range visit www.eu.fishersci.com/go/fisherbrand
Content

Solutions for the Food and Beverage Industry ........................................ pages 4 - 5

In-depth sections
• Sample Collection and Handling......................................................... pages 9 - 11
• Microbiology and Food Safety............................................................. pages 12 - 14
• Production Testing............................................................................. pages 15 - 17
• Laboratory Testing............................................................................. pages 18 - 26
• Research and Development............................................................... pages 27 - 29
• Safety................................................................................................. pages 30 - 31

A Chemical for Every Experiment

Discover What’s Possible
Providing choice and convenience in the laboratory market for more than 100 years, we have the selection of chemical grade you need, for any application.

Our Supplier Partners

Analysis

Research and Development

Life Science Applications

Production

Specialised Chemical Services
Sample Collection and Handling

Sampling Devices
• For solids, liquids, gaseous
• Specialized food sampling devices
• Mills, disposable and automated systems

Containers
• Glass, plastic, metal, ceramics
• Sample specific containers, sizes and dimensions
• Mills, disposable

Transportation
• Sample carrying cases
• Ice packs and cool boxes
• Data loggers and digital monitors

Sample Storage
• Fridges and freezers
• Thermometers and labels

Microbiology
Sample Preparation to Identification
• Incubation
• Identification / staining
• Lab equipment
• Thermolabile methods and certified methods
• Qualitative tests
• Rapid screening methods with PCR tools

Production Testing
Portable Checks and Instruments
• Thermometers, humidity meters
• Ultrasonic and ultraviolet strips
• pH, conductivity, multimeters and electrodes

All-Line methods
• Concentration
• Thickness
• Colour
• Consistency
• Medium
• Weight

Research and Development

Nutritional Content
• Chromatography and spectrophotometry
• Protein determination
• Fatty acids
• Trace elements

Physical and Optical Parameters
• Rheological measurements
• Melting and dropping point
• Microscopy
• Density meters

Food Specific Tests
• Ash
• Acid and titration
• Rinsed water
• Stability testing
• Microbiology
• Sulphite determination

Food Life Sciences
• Sequencing
• Cell biology
• Cryopreservation

Safety

Production Safety
• Hand protection from chemicals, thermal extremes, abrasive and cutting instruments
• Eye protection
• Boots, hair and personal coveralls
• Full body suits for cleaning and maintenance activities
• High visibility items
• Respiratory protection
• Hearing protection
• Spill kits
• Chemical storage
• Gas monitoring

Laboratory Safety
• General laboratory PPE including gloves, glasses and coats
• Respiratory protection
• Spill kits
• Gas monitoring
• Fume hoods and biological safety cabinets
• Chemical storage

Our European Field Safety Consultants
• Select the appropriate products for your identified hazards
• Ensure correct use and maintenance
• Know your people are safe

Laboratory Testing

Chemical Parameters
• Acidity and titration methods
• K2 and protein
• Milk
• Water
• Nitrogen content
• Calcium & phosphorus
• Moisture
• Tocopherols

Physical Parameters
• Biophysical and physical measurement
• Particle size
• Optical density
• Consistency

Optical Parameters
• Brix, Baume, Salinity
• Fluorimetry

Labware, Chemicals and Consumables
• Scientific, reagents, standards
• Glassware, plasticware
• Tubing, connectors

Laboratory Equipment
• Lab essentials
• Analytical equipment

Laboratory Furniture and Fixed Equipment
• Benches and workstations
• Lab baths
• laminar flow and biological safety cabinets
• Refrigerators and freezers
• Cleaning and biohazard management

Fisher Scientific
WORKFLOW SOLUTIONS IN THE
Food and Beverage INDUSTRY

*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffmann-La Roche
### Sample Collection and Handling

#### Application Specific

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Choice and Convenience</th>
<th>Fisherbrand</th>
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</thead>
<tbody>
<tr>
<td>Containers</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Light filtering bottles, bottle with safety lock</td>
<td>Fisherbrand</td>
</tr>
<tr>
<td></td>
<td>Syringes</td>
<td>Fisherbrand</td>
</tr>
<tr>
<td></td>
<td>Vaccum containers, sterile or aseptic</td>
<td>Fisherbrand</td>
</tr>
<tr>
<td></td>
<td>Jam jars</td>
<td>Fisherbrand</td>
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#### Liquid

**Sampling devices**

<table>
<thead>
<tr>
<th>Product Type</th>
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<td>Containers</td>
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<tr>
<td></td>
<td>Bottles aseptic or sterile</td>
<td>Fisherbrand</td>
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<td></td>
<td>Jerrycans</td>
<td>Fisherbrand</td>
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<td>Tubing</td>
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#### Solid

**Sampling devices**

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<tr>
<td></td>
<td>Bottles broad necked</td>
<td>Fisherbrand</td>
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<tr>
<td></td>
<td>Syringes</td>
<td>Fisherbrand</td>
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<tr>
<td></td>
<td>Spatulas</td>
<td>Fisherbrand</td>
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<td>Scrapers</td>
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#### Automated

**Sampling devices**

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</thead>
<tbody>
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<tr>
<td></td>
<td>Contact free samplers</td>
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#### Transportation

**Product Type**

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<tbody>
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<td>Large volume in-line</td>
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<tr>
<td>Contact free samplers</td>
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</table>

**Storage**

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Choice and Convenience</th>
<th>Fisherbrand</th>
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</thead>
<tbody>
<tr>
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<tr>
<td></td>
<td>Syringes</td>
<td>Fisherbrand</td>
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<tr>
<td></td>
<td>Vaccum containers, sterile or aseptic</td>
<td>Fisherbrand</td>
</tr>
<tr>
<td></td>
<td>Jam jars</td>
<td>Fisherbrand</td>
</tr>
</tbody>
</table>

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*Your A – Z of sample collection, handling and storage, whatever your sample consider it collected.*
Production Testing

Temperature

Standard and certified therometers

Product type | Choice and Convenience | Fisherbrand
---|---|---
Thermometers | Ebro | Fisherbrand
Digital thermometers | Ebro | Fisherbrand
Thermocouples | Ebro | Fisherbrand
Temperature monitors | Ebro | Fisherbrand
USB data loggers | Ebro | Fisherbrand
Infrared thermometers | Ebro | Fisherbrand
Humidity temperature monitors | Ebro | Fisherbrand
Humidity monitors | Ebro | Fisherbrand
Portable meters with temperature and pressure data loggers | Ebro | Fisherbrand

Visit www.eu.fishersci.com for electrode selection

Benchtop and portable

Product type | Choice and Convenience | Fisherbrand
---|---|---
Portable meters pH, conductivity, DO | Thermo Scientific / WTW / Mettler Toledo | Fisherbrand
Combination meters | Thermo Scientific / WTW / Mettler Toledo | Fisherbrand
High-protein electrode | Thermo Scientific / WTW / Mettler Toledo | Fisherbrand
Viscous liquid electrodes | Thermo Scientific / SI Analytics / Mettler Toledo | Fisherbrand
Solids electrodes | Thermo Scientific / Mettler Toledo | Fisherbrand
Cleaning agents | Thermo Scientific / SI Analytics | Fisherbrand
Buffers and solutions | Thermo Scientific / SI Analytics | Fisherbrand

Rapid tests

Product type | Choice and Convenience | Fisherbrand
---|---|---
Ph test strips | Macherey Nagel | Fisherbrand
Colorimetric and titrimetric test strips and kits | GE Healthcare Whatman / WTW / Lovibond / Macherey Nagel / Alfa Aesar | Fisherbrand

Material characterisation

Product type | Choice and Convenience | Fisherbrand
---|---|---
Optical pH electrodes | Bellingham & Stanley / Alfa Aesar | Fisherbrand
Digital pH electrodes | Bellingham & Stanley / Alfa Aesar | Fisherbrand
At-line pH electrodes | Bellingham & Stanley / Alfa Aesar | Fisherbrand
pH and conductivity meters | Bellingham & Stanley / Alfa Aesar | Fisherbrand
At-line pH and conductivity meters | Bellingham & Stanley / Alfa Aesar | Fisherbrand
At-line conductivity | Bellingham & Stanley / Alfa Aesar | Fisherbrand
Calibrators | Lenotec / Endecotts | Fisherbrand
Calibrators | Lovibond / Endecotts | Fisherbrand
Buffers and solutions | GE Healthcare Whatman / WTW / Lovibond / Macherey Nagel / Alfa Aesar | Fisherbrand

Maximise your efficiency with one of our online testing products – no laboratory needed

Microbiology testing refer to page 9
Laboratory testing refer to page 18
RAD testing refer to page 27
Safety protection refer to page 30
Sample collection and handling refer to page 7
**Lab Testing - Sample Preparation**

**Stage 1.** Samples with solid material (including in suspension)

- **Extracting**
  - Pipette fillers/controllers
  - Micropipettes and tips
  - Bulb pipettes

- **Heating**
  - L.S. Collection
  - Centrifuges
  - S.O.L.A. HyperSep columns

- **Centrifuging**
  - Spin columns
  - Microtubes
  - Centrifuge tubes

- **Filtering**
  - Syringe filters
  - Micropumps
  - Filter systems

- **Weighing**
  - Analytical balances
  - Precision balances
  - Balance accessories

**Stage 2.** Removing particulate matter and separation

- **Extracting**
  - Pipette fillers/controllers
  - Micropipettes and tips
  - Bulb pipettes

- **Heating**
  - L.S. Collection
  - Centrifuges
  - S.O.L.A. HyperSep columns

- **Centrifuging**
  - Spin columns
  - Microtubes
  - Centrifuge tubes

- **Filtering**
  - Syringe filters
  - Micropumps
  - Filter systems

- **Weighing**
  - Analytical balances
  - Precision balances
  - Balance accessories

**Stage 3.** Essential preparation equipment

- **Extracting**
  - Pipette fillers/controllers
  - Micropipettes and tips
  - Bulb pipettes

- **Heating**
  - L.S. Collection
  - Centrifuges
  - S.O.L.A. HyperSep columns

- **Centrifuging**
  - Spin columns
  - Microtubes
  - Centrifuge tubes

- **Filtering**
  - Syringe filters
  - Micropumps
  - Filter systems

- **Weighing**
  - Analytical balances
  - Precision balances
  - Balance accessories
Lab Testing - Physical Parameters

Optical Parameters

- **Spectrophotometers**
  - Thermo Scientific / Cole Parmer
- **Refractometers**
  - Bellingham + Stanley / Atago
  - Fisherbrand
- **Polarimeters**
  - Bellingham + Stanley / Atago
  - Fisherbrand
- **Lamps**
  - UVP / Day Light Company / Sunnex
- **Colorimeters**
  - Lovibond / Cole Parmer
  - Fisherbrand

Physical Parameters

- **Rheometer / viscometer**
  - Thermo Scientific
- **Viscosity bath**
  - Huber, Julabo
- **Capillary viscosimeter**
  - SI Analytics
- **Density meter**
  - Mettler Toledo/ Bel-Art / Anton Paar
  - Fisherbrand

Cleaning and Biohazard Detection

- **Cleaning validation**
  - BioFinder
- **Biofilm removal**
  - BioFinder
- **Deep cleaning solutions**
  - Decron Cleaning Agents
- **Sanitary wipes**
  - Kimberly-Clark / Micronova
- **Specialist cleaning tools**
  - Micronova
- **Generic detergents**
  - Key Industrial / Bürkle

Shelf Life and Stability

- **Shelf life**
  - Velp / Thermo Scientific
- **Water activity**
  - Rotronic
- **Moisture analyser**
  - Ohaus / Sartorius
  - Fisherbrand
- **Stability testing**
  - Thermo Scientific (rheological measurements)
- **Processability**
  - Thermo Scientific (rheological measurements)
- **Consistometer**
  - Kinematica / Endecotts

Sample collection and handling refer to page 9
Production testing refer to page 13
R&D testing refer to page 27
Safety protection refer to page 30

Viscosity, density, refractive index, colour and more

Sample collection and handling refer to page 9
Production testing refer to page 13
R&D testing refer to page 27
Safety protection refer to page 30
Nutritional Content

Physical and Optical Parameters

Food Life Science

Research and Development Laboratories

Sample collection and handling refer to page 9
Production testing refer to page 12
Laboratory testing refer to page 18
Safety protection refer to page 30
### Personal Protective Equipment

#### Laboratory Environment

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Description</th>
<th>Brand</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>3M</strong> 1236171994 SecureFit™ Anti-Scratch, Anti-Fog Safety Spectacles</td>
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<tr>
<td>10116544</td>
<td>Aura 9322+ Particulate Respirators, FFP2</td>
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<tr>
<td></td>
<td><strong>3M</strong> 12364749 Polyurethane Earplugs - uncorded</td>
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<tr>
<td></td>
<td><strong>3M</strong> 10116544 Ergonomic Nitrile Exam Gloves, 93-833 Size 7.5-8</td>
<td>Microflex</td>
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<td><strong>3M</strong> 15451922 Protection Polypropylene Disposable Lab Coats with Elastic Cuffs , Size L</td>
<td>Fisherbrand</td>
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<td><strong>3M</strong> 15269363 Heavy-duty Disposable Nitrile Gloves, 93-843, Size 7.5-8</td>
<td>Microflex</td>
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<td><strong>3M</strong> 15347049 High Risk Disposable Nitrile Gloves, 93-853, Size 7.5-8</td>
<td>Microflex</td>
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<td><strong>3M</strong> 15549451 Latex Powder Free Gloves 63-846 Size 7.5-8</td>
<td>Microflex</td>
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<td><strong>3M</strong> 10735685 KIMTECH SCIENCE™ STERLING™ Nitrile Gloves, Size M</td>
<td>Kimberly Clark</td>
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<tr>
<td></td>
<td><strong>3M</strong> 11776554 ProFood™ 78-110 Series White Fibers Gloves, Size 9</td>
<td>Ansell</td>
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<td><strong>3M</strong> 15371904 SecureFit™ Anti-Scratch, Anti-Fog Safety Spectacles</td>
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<td></td>
<td><strong>3M</strong> 12364749 Polyurethane Earplugs - uncorded</td>
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#### Production Environment

<table>
<thead>
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<th>Cat. no.</th>
<th>Description</th>
<th>Brand</th>
</tr>
</thead>
<tbody>
<tr>
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<td>GoggleGear™ 500 Series Safety Goggles</td>
<td>3M</td>
</tr>
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<td></td>
<td><strong>3M</strong> 15619175 PELTOR™ ProTac™ III Slim Headset Headband</td>
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</tr>
<tr>
<td></td>
<td><strong>3M</strong> 15330541 Easysafe CHF5 Hooded Coverall, Size L</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>3M</strong> 11346974 Aura 9332+ Particulate Respirators, FFP3</td>
<td>3M</td>
</tr>
</tbody>
</table>

---

All you need for safety in the food and beverage industry. If you require expert advice why not talk to your Fisher Scientific Safety Specialist?
The solution is the type 90 safety storage cabinet by Asecos. This is the perfect choice.

It guarantees maximum safety while minimising the risk of fire with stored flammable materials as well as protecting the contents of the cabinet in the event of fire.

"Today flammables are used in most laboratories and industrial environments. Storing these materials improperly poses great risk for people and property."