

Biotage[®] Horizon 3100

Oil & Grease Extractor



Oil & Grease Around the World

Oil and grease (n-hexane extractable material) is a general indicator of the amount of hydrocarbons in a water supply. It is used around the world to indicate pollution and to help ensure reliable waste treatment plant operation.

In the past this measurement was often made by extracting the water with a chlorofluorocarbon solvent and infrared used for the measurement step. With concern about the ozone layer and important toxicity concerns, these solvents have been outlawed in many countries and n-hexane is now the extraction solvent of choice. A simple gravimetric measurement is used for the analytical step.

Automated SPE for Efficiency

Biotage® Horizon 3100 automates the entire extraction process, fully compliant with US EPA Method 1664A/B, ISO 11349 and Standard Methods 5520G. Operation can be summarized as follows:

1. The disk is conditioned to accept the sample
2. The system uses the original sample bottle to deliver the sample
3. The specialized solid phase extraction disk retains the oil and grease from the sample and water is sent to waste
4. The sample bottle is automatically rinsed
5. Hexane elutes the oil and grease from the solid phase extraction disk into the optional WaterTrap drying device
6. The WaterTrap dries the extract and allows only the hexane layer containing targets to pass through
7. The dry hexane extract is delivered to the receiving vessel allowing easy transfer to an aluminum pan and the SpeedVap® IV for evaporation



Instrument Configuration

- » Three independent stations for the best productivity
- » Ergonomic design for comfortable operation
- » Controlled airflow for increased safety operating outside a hood
- » Rugged construction with plastic front for corrosion resistance
- » Spill containment platform and drip tray
- » Can be operated in a hood or on a bench



Touch-Screen Controller

- » Color and intuitive icons make learning easy and quick
- » Resident methods help speed development
- » Rugged controller for easy handling
- » Start up and clean methods for easy maintenance



WaterTrap Drying

- » In-line drying for the best efficiency
- » More convenient and reliable than sodium sulfate
- » Eliminates sodium sulfate



Pacific® Solid Phase Extraction Disks

- » Reliable, excellent recoveries
- » Available in two sizes for clean or more particulated samples
- » Can be used with prefilters for especially difficult samples
- » Certified to operate with automation



Fully Compliant with Regulatory Methods

- » Uses the original sample bottle to dispense the sample and automatically rinses it, too
- » Methanol and hexane carefully separated for the best compliance

Reliable for Processing any Sample

- » Variety of prefilters for dirty samples
- » Overflow sensors to pause operation before a sample is lost for better unattended operation

Safety Considerations

- » CE marked
- » NRTL tested
- » Uses the safe Solvent Delivery System
- » Less operator exposure to solvent for increased safety

Green Features

- » Less solvent used
- » Less solvent waste
- » Biotage® Solvent Recovery OG option to reclaim hexane from the SpeedVap® IV evaporation system

Get Ahead with Biotage® Horizon 3100

Business Advantages

- » Three independent stations for the best match with the laboratory workload
- » Safely walk-away for better technician time use
- » Intuitive touch screen controller with pre-programmed methods for rapid start-up with reduced learning curve
- » Uses less solvent and produces less waste
- » All incoming samples can be processed, whether highly particulated or not

Analytical Advantages

- » Excellent recoveries with Pacific® Premium disks
- » Better reproducibility between multiple technicians
- » Uses the original sample bottle and also rinses it



Your Complete Partner for Effective Chemistry

Biotage is a worldwide supplier of instruments and accessories designed to facilitate the work of laboratory and process chemists. With our deep knowledge of the industry, academic contacts and in-house R&D teams, we can deliver the best solutions to your challenges. We take great pride in our flexibility and ability to meet our customer's individual needs. With strong foundations in both analytical, organic and process chemistry, we can offer the widest range of solutions available on the market.

EUROPE

Main Office: +46 18 565900
Toll Free: +800 18 565710
Fax: +46 18 591922
Order Tel: +46 18 565710
Order Fax: +46 18 565705
order@biotage.com
Support Tel: +46 18 56 59 11
Support Fax: + 46 18 56 57 11
eu-1-pointsupport@biotage.com

NORTH & LATIN AMERICA

Main Office: +1 704 654 4900
Toll Free: +1 800 446 4752
Fax: +1 704 654 4917
Order Tel: +1 704 654 4900
Order Fax: +1 434 296 8217
ordermailbox@biotage.com
Support Tel: +1 800 446 4752
Outside US: +1 704 654 4900
us-1-pointsupport@biotage.com

JAPAN

Tel: +81 3 5627 3123
Fax: +81 3 5627 3121
jp_order@biotage.com
jp-1-pointsupport@biotage.com

CHINA

Tel: +86 21 68162810
Fax: +86 21 68162829
cn_order@biotage.com
cn-1-pointsupport@biotage.com

KOREA

Tel: + 82 31 706 8500
Fax: + 82 31 706 8510
korea_info@biotage.com
kr-1-pointsupport@biotage.com

INDIA

Tel: +91 22 4005 3712
india@biotage.com

Distributors in other regions
are listed on www.biotage.com

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