# СИСТЕМА АНАЛИЗА MILLIFLEX OASIS



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# Milliflex Oasis® system

## Introduction

The Milliflex Oasis® system is a solution for the microbial testing of aqueous fluids.

It is typically used in the **pharmaceutical industry** and provides an efficient method for monitoring in-process samples, water, aqueous raw materials and finished products for microbial limits testing.

It can also be used in the electronics industry to test bacterial levels in rinse water following deionization for microelectronics and for drinking water and beverages including beer, wine, fruit juice, soft drinks as well as their raw materials.

The Milliflex Oasis® system for microbiological examination of aqueous fluids is composed of the Milliflex Oasis® pump, the Milliflex Oasis® single-use filtration unit and the Milliflex Oasis® single-use media plate. This system provides a convenient solution for increasing the number of tests per hour while reducing the risk of false results.

Please refer to the ordering information section for details on the different items.

## All-in-one filtration equipment

Using ergonomic principles, the Milliflex Microlite® feature makes the hardware intui-tive to use and maintain.

The Milliflex Oasis® pump consists of a controlled vacuum source and filtration support. The system is design for biosafety cabinets/laminar flow hoods, with its small footprint, low weight and easy to decontaminate surfaces. This uniquely designed pump reduces the risk of cross-contamination and false results. Both ergonomics and scalability generate high throughput. No autoclave is required for hardware decontami-nation, only monthly sanitization, to dramati-cally reduce the workload in the lab.

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**Easy set-up:** No calibration needed, plug in the quick connections for both the power and the drain tubing, wipe the smooth surface and you are ready to go.

**Ergonomics:** handling heavy sample containers can be an effort, the low height (2.8 in. or 70 mm) support for the filtration units makes the operation much more comfortable.

**No cross-contamination:** a check valve situated in the removable filtration head prevents potential contamination of the membrane from the fluidic path. Key parts of the head are accessible for cleaning.

**High throughput:** scale-up by connecting up to 3 pumps using just the default power supply and connecting cables. Start up to 6 simultaneous filtrations with a single action.

## Filtration units

The Milliflex Oasis® funnel streamlines your workflow with standardized handling steps and reduced filtration time thanks to a new drainage design. The Milliflex Protact® feature protects your samples from secondary contamination and makes the membrane-to-agar contact optimal to ensure the most reliable results. The sealed membrane ensures easy read-out. Each filtration unit is 100% integrity tested to increase reliability, with our effortless new touch-free membrane transfer.

**Reduced footprint:** Funnels are packed by 8 into a protective bag, on a tray that can be separated and stacked for space conservation.

**Simple funnel transfer to the pump:** An integrated support protects the membrane from secondary contamination, no tweezers required.

**Sample protection:** the hinged lid on the funnel protects the sample and reduces the number of handling steps.


**Accurate sample volume:** clear funnel, visible level indicators and hydrophobic material, the Milliflex Azure® feature ensures that the right sample volume is filtered.

**Optimal, touch-free membrane to culture media transfer**: the touch-free design includes a sealed membrane that forms a convex shape to avoid bubbles or furled filters for any operator.

**Effortless funnel separation:** a simple pinch and the funnel is removed from the membrane: no forceful cracking of the plastic. The funnel lid closes the media plate which is then ready for incubation.

## Culture Media Plates

The unique plate color coding offers the control of critical handling steps all along the workflow. The Milliflex Rack & Stack® feature also includes a locked lid for safe transportation and incubation. Together, these innovations help to reduce the risk of false results.

**No media mismatch:** the plate material is color-coded to enable easy control at each testing step.

**Lockable assembly:** the plates can be assembled and locked to ensure safe transportation. The empty funnel tray can also be used as an incubation rack.

**No accidental opening:** The cover is locked and secured when closed.

**Long shelf life and reduced condensation:** If left unopened, the plates remains sealed—unlike standard petri plates—which reduces condensation and dehydration for an extended storage time.

## Traceability

Data integrity is a critical aspect for quality control laboratories. From the primary packaging to the single product, our Milliflex Trace® feature offers complete traceability by including detachable labels, a 2D barcode that can be scanned for direct access to documentation, and unique identification for each funnel and each media plate.

**Traceability from A to Z:** identification and 2D barcode on primary packaging, secondary packaging and on each single unit.

**Color coding to avoid mistakes:** on boxes and on each unit.

**2D barcode to access documentation:** following GS1 pharma standard, easy access to key documentation including products certificates of quality

**Single ID:** each funnel or media plate has a unique identification number that you can match with your sample.

## Regulatory compliance

All these traceability features are compliant with USP <1117> for documentation and laboratory records. They help in reducing preparation time for both inspections and investigations.

Reduced risk of secondary contamination is also recommended in USP <61> EP 2.6.12 JP 4.05 part 1. Our specific PVDF membrane used for samples containing antimicrobial agents is compliant to USP <1227>.

Our 250 mL funnel is designed for WFI samples as per EP 0169 and USP <1231>.

## Discover our full service portfolio for bioburden testing and the Milliflex Oasis® system

In our long history of serving the pharmaceutical industry by pioneering and refining groundbreaking solutions, we have gained the regulatory and technological expertise to offer a comprehensive range of professional, best-in-class services.

For more information, don't hesitate to con-tact your local sales representative or visit our website for our Milliflex® services datasheet.

## Milliflex® Quantum Rapid Detection system

### Interested in a rapid method?

The Milliflex® Quantum system can reduce your time to result by up to one third compared to traditional methods, enabling faster release or corrective actions. It works perfectly with the Milliflex Oasis® system.

### Benefits

- Non-destructive method enables reliable identification using any ID technology
- Easy-to-use system and simple workflow requires minimal training
- Results comparable to the compendial method, enabling faster validation
- Economical, robust system
- Compact hardware fits on any laboratory bench

## Specifications

| | |
|---|---|
| **Milliflex Oasis® pump** | |
| Frame | Acrylonitrile styrene acrylate and polycarbonate, compatible with standard UV sterilization |
| Filtration heads | Two per pump, stainless steel, silicone, rubber gaskets<br>Can be autoclaved at 121 °C for 15 minutes or at 134 °C for 5 minutes |
| **Pump dimensions** | |
| Height | 90 mm (3,5 in.) |
| Width | 230 mm (9,0 in.) |
| Depth | 310 mm (12,2 in.) |
| Filtration support height | 70 mm (2,8 in.) |
| Weight with filtration heads | 3,4 kg (7,5 lb) |
| Power supply | 100 - 240 V, 50/60 Hz - One set can be used for up to three pumps |
| **Milliflex Oasis® filtration unit** | |
| **Filtration unit** | |
| Funnel, support & lid material | Styrene butadiene copolymer (SBC) |
| Membrane ring material | Polyethylene (PE) |
| Height 100 mL funnel | 57 mm (2,2 in.) |
| Height 250 mL funnel | 113 mm (5,5 in.) |
| Maximal diameter | 82 mm (3,2 in.) |
| 2D code identification | Datamatrix, can be read with standard 2D reader |
| Sterilization | E-beam irradiation |
| **Membrane** | |
| Material | Mixed cellulose esters (MCE) or low binding PVDF Durapore® |
| Color | White or black |
| Pore size | 0,45 µm or 0,22 µm |
| Diameter | 49 mm (1,9 in.) - same as Milliflex® system |
| **Milliflex Oasis® media plates** | |
| Material | Polystyrene (PS) |
| R2A plate color | Blue |
| TSA plate color | Green |
| SDA plate color | Pink |
| Maximal diameter | 66 mm (2,6 in.) |
| 2D code identification | Datamatrix, can be read with standard 2D reader |
| **Milliflex Oasis® pump: materials in contact with the liquid filtered** | |
| Part | Material |
| Filtration head | Stainless steel ASI 316L |
| | Silicone (gaskets & check valve) |
| Inner tubing | Low-density polyethylene (LDPE) |
| Tubing fittings | Polyphenylsulfone (PPSU) |
| | Polypropylene (PP) |
| | Acetal |
| | Buna N rubber |
| Core pump module | Polypropylene (PP) |
| | FKM (Viton®) |
| | PTFE (Teflon®) |
| Drain tubing | Silicone |

## Ordering Information

| Description | Qty/ pack | Article number |
|---|---|---|
| **Filtration units** | | |
| Milliflex Oasis® 100 mL funnel, 0.45 µm white gridded, mixed cellulose esters (MCE) membrane | 24 | MMHAWG124 |
| Milliflex Oasis® 250 mL funnel, 0.45 µm white gridded, mixed cellulose esters (MCE) membrane | 24 | MMHAWG224 |
| Milliflex Oasis® 100 mL funnel, 0.45 µm black gridded, mixed cellulose esters (MCE) membrane | 24 | MMHABG124 |
| Milliflex Oasis® 100 mL funnel, 0.22 µm white gridded, mixed cellulose esters (MCE) membrane | 24 | MMGSWG124 |
| Milliflex Oasis® 100 mL funnel, 0.45 µm white plain PVDF Durapore® membrane | 24 | MMHVWP124 |
| Milliflex Oasis® 250 mL funnel, 0.45 µm white plain, PVDF Durapore® membrane | 24 | MMHVWP224 |
| Milliflex Oasis® rapid 100 mL funnel, 0.45 µm white plain, PVDF Durapore® membrane | 24 | MMHVMFX24 |
| Milliflex Oasis® funnel without membrane, growth promotion accessory | 24 | MMRECVERY |

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