



sartorius stedim  
biotech

## ambr<sup>®</sup> 250 high throughput Consumables and Accessories



turning science into solutions

## Consumable and Accessories for the ambr<sup>®</sup> 250 high throughput System

This brochure lists the consumables currently available for the ambr 250 bioreactor system. To order consumables please contact your local Sartorius office, details on the back cover of this brochure or email [royston-orders@sartorius.com](mailto:royston-orders@sartorius.com). A full list is available online at [www.sartorius-stedim-tap.com](http://www.sartorius-stedim-tap.com)





# Consumables

## ambr<sup>®</sup> 250 high throughput Consumables Kits

### ambr 250 consumables kit, Mammalian

Part no. 001-5G54  
For mammalian processes, essential ambr 250 consumables are available to order as a consumables kit. This is an ideal start-up kit as it includes all the essentials needed for at least one experiment on an ambr 250 bioreactor system. Kit contains 4 boxes of mammalian ambr 250 vessels, 3 boxes 10 mL tips, 1 box of 300 uL tips.

### ambr 250 consumables kit, Microbial

Part no. 001-5G52  
For microbial processes, essential ambr 250 consumables are available to order as a consumables kit. This is an ideal start-up kit as it includes all the essentials needed for at least one experiment on an ambr 250 bioreactor system. Kit includes 4 boxes of microbial ambr 250 vessels, 3 boxes 10 mL tips, 1 box of 300 uL tips.

It is recommended to include this kit when ordering a full ambr 250 system.

## ambr<sup>®</sup> 250 high throughput Vessels

Bioreactor vessels designed with dual impellers either pitch-blade for mammalian or Rushton type for microbial cultures, configured as standard with integrated gas and feed lines, gas filter, DO spot and pH probe. All bioreactors are irradiated and individually wrapped.

### New: ambr 250 high throughput unbaffled vessel with single impeller

Part no. 001-2G37



### ambr 250 'EASY CONNECT' disposable bioreactors

Vessel part number	Description	Units per box
001-5G13	Microbial vessel with 20 mm dual Rushton type impeller	6
001-5G11*	Microbial vessel with 20 mm dual Rushton type impeller and integrated in-line liquid filters	6
001-5G25	Mammalian vessel with dual pitch-blade impeller	6
001-5G21	Mammalian vessel with dual pitch-blade type impeller and integrated in-line liquid filters	6
001-5G31+	Microbial vessel with a 30 mm Rushton type impeller attached to an external condenser bottle.	3
001-2G37	Mammalian vessel without baffles, single 'elephant ear' (pitched blade) impeller, no in-line liquid filters	6

\* This is not a stock item thus will attract a longer lead time and will require a minimum stock order, contact your local sales team for more information.

+ This vessel variant is compatible with systems that are equipped with cooling bottle positions at the rear of the vessel array, this is system option 001-8G09.

## Pipette Tips

### 10 mL disposable tips, irradiated

Part no. 001-2G78

Irradiated ambr 250 10 mL pipette tips ensure accurate and precise larger volume liquid handling, primarily for sampling as well as media filling. ambr 250 is configured to operate using these high precision robotic tips. Max working volume 9 mL. Pack contains 5 racks of 24 tips, individually wrapped.

### 10 mL wide bore disposable tip, Irradiated

Part no. 001-2G79

Similar to the 10 mL disposable tips however enables the use to aspirate liquids that have particulates ensuring accurate and precise liquid transfer of particulate feeds or culture. Pack contains 5 racks of 24 tips, individually wrapped.

### 300 $\mu$ L disposable tips, sterilized

Part no. 001-2G72

ambr 250 300  $\mu$ L pipette tips ensure accurate and precise lower volume liquid additions. ambr 250 is configured to operate using these high precision robotic tips. Max working volume 300  $\mu$ L. Pack contains 10 racks of 96 tips, individually wrapped.

## Plates

### 24 well deep well 'V' bottom plates, irradiated

Part no. A-0038

ambr 250 24 well deep well plates can be used to hold samples harvested from the bioreactors, they can also be used to hold reagents and feeds on the storage deck, before being added into the bioreactors. Working volume 8 mL per well, 24 wells per plate. Pack contains 25 sterile plates with lids, individually wrapped.



## Tube Kits

### 12-vessel tube kit for 250/12 and 24, right side only, irradiated

Part no. 001-2G44

A pack of 12 irradiated tube sets designed to deliver feed from one source bottle to 12 bioreactors. Each tube set is individually packed to assist with aseptic connection. This pack is applicable to both 12-vessel system, and 24-vessel system, to connect pumps on bioreactors 13-24. With 12 individual tube sets per pack, one pack is capable of connecting one feed bottle to each pump for all 12 bioreactors, for 3 runs.

### 4-vessel tube kit, irradiated

Part no. 001-2G41

A pack of 12 irradiated tube sets designed to deliver feed from one source bottle to pumps on only 4 bioreactors. Each tube set is individually packed to assist with aseptic connection. This pack is applicable to both 12-vessel and 24-vessel bioreactor systems. With 12 individual tube sets per pack, one pack is capable of connecting one feed bottles to each pump for 4 bioreactors, for 3 runs.

Note: 4-vessel system tube set

This tube set enables the user to connect one feed bottle to up to 4 bioreactors. This enables feed flexibility, especially useful for application in media studies.

### 24-vessel tube kit for 250/24, irradiated

Part no. 001-2G48

A pack of 12 irradiated tube sets designed to deliver feed from one source bottle to 24 bioreactors. Each tube set is individually packed to assist with aseptic connection. This pack is only applicable to a 24-vessel bioreactor system. With 12 individual tube sets per pack, one pack is capable of connecting one feed bottle to each pump for all 24 bioreactors, for 3 runs.

### 12-vessel tube kit for 250/24, left side only, irradiated

Part no. 001-2G46

A pack of 12 irradiated tube sets designed to deliver feed from one source bottle to 12 bioreactors. Each tube set is individually packed to assist with aseptic connection. This pack is only applicable 24 vessel bioreactor system and is used to connect pumps on bioreactors 1-12. With 12 individual tube sets per pack, one pack is capable of connecting one feed bottles to each pump for 12 bioreactors, for 3 runs.

### Waste tube kit for ambr 250/12

Part no. 001-2G77

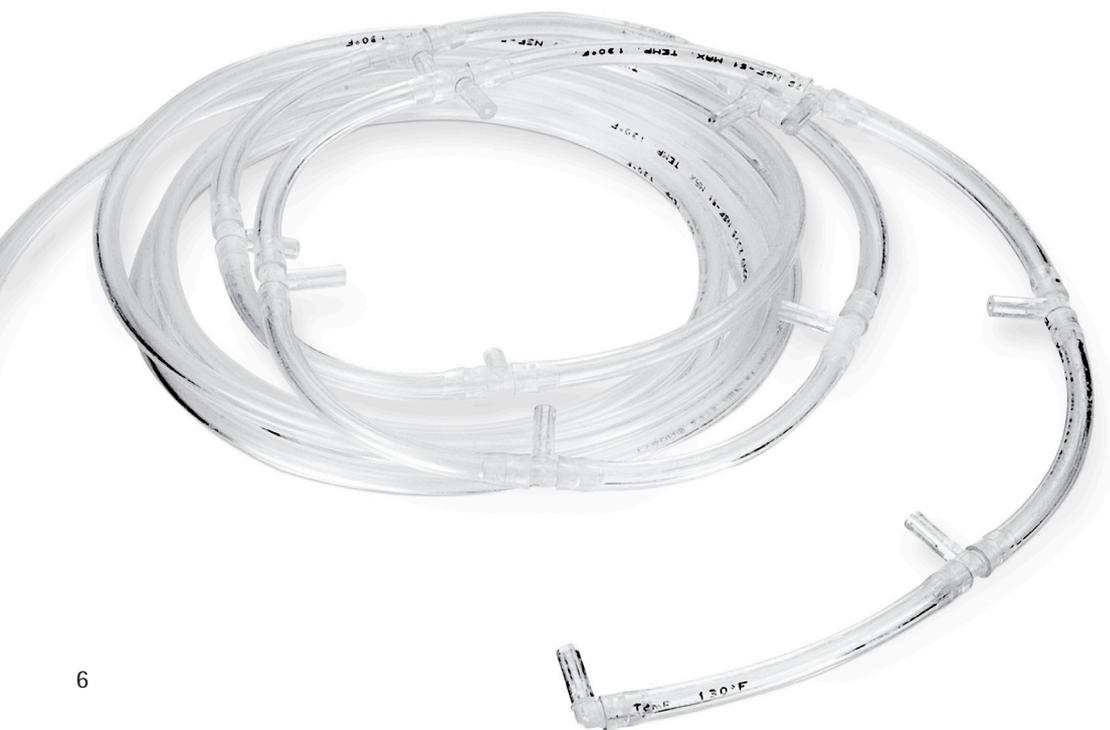
### Waste tube kit ambr 250/24

Part no. 001-2G76

### Mid-run priming kit

Part no. 001-5G66

Single use device to enable delayed priming of one pumped reagent. Irradiated, pack of 12. Requires ambr 250 high throughput software R8 to operate, R9 for autopriming. Compatible with standard ambr 250 high throughput 5G vessel types; check compatibility before ordering.





## Tubes and Tube Rack Lids

### **2 mL centrifuge tubes**

Part no. 001-2G96

These sample tubes hold up to 2 mL and are mainly used to store samples from the bioreactors. They are packed in such a way that the robotic liquid handler can transfer samples from the bioreactor into them with precision and are designed to fit in the ambr 250 high throughput sample rack. Pack contains 500 tubes.

### **15 mL conical tubes**

Part no. 001-2G97

These sample tubes hold up to 15 mL and are mainly used to store samples from the bioreactors. They are packed in such a way that the robotic liquid handler can aliquot samples from the bioreactor into them with precision and are designed to fit in the ambr 250 sample rack. Pack contains 500 tubes.

### **100 robot-compatible lid for tube racks, irradiated**

Part no. 001-2G93

These lids are designed in such a way as to allow the robotic liquid handler to lift them off the tube rack to allow media transfer into the rack. Pack contains 100 lids.

### **ambr 250 high throughput 50 mL tube rack**

Part no. 001-8G21

Rack for six 50 mL centrifuge tubes, for use in a plate deck location; compatible with automated lid handling using a standard microplate lid (not supplied).

### **ambr 250 high throughput 50 mL tube adapter**

Part no. 001-8G22

Adapter for one 50 mL centrifuge tube, for use in a media bottle deck location. Adapter fits one 50 mL centrifuge tube and includes one automation compatible lid.

## Drip Catcher Pads

### **ambr 250 drip catcher pads, irradiated**

Part no. 001-2G94

These are liquid absorbent pads that are designed to fit on the robotic liquid handler and ensure that there is no cross contaminations of liquids caused by drips from the pipettes as liquid is being moved from one position to the another. Pack contains 12 irradiated pads.

## Caps

### **ambr 250 4-vessel system wash caps**

Part no. 001-2G81

The wash caps are used to ensure that the nozzles in the liquid manifold are properly covered during and after chemical sterilization and that the nozzles are properly sterilized and kept sterile after the process. These are spare wash caps in case the ones provided with the unit get damaged or lost. Pack contains 12 wash caps.

## Bottles

### **ambr 250 high throughput reagent bottle, 175 mL, pack of 12**

Part no. 001-2G50

The 175 mL bottle is ideal for holding stock solution on the deck where it can be transferred from these bottles to other location by the liquid handler. The bottles are typically used to hold media that is only required in small volumes. Pack contains 12 Irradiated bottles.

### **ambr 250 high throughput reagent bottle, 1 L**

Part no. 001-2G51

The 1 L bottle is ideal for holding stock solution on the deck where it can be transferred from these bottles to other location by the liquid handler. The bottles are typically used to hold media that is required in larger volumes. Pack contains 12 Irradiated bottles.

### **ambr 250 feed reservoir bottle**

Part no.001-2G54

These bottles are designed to hold the liquid feed pump. These bottles include cap with filtered vent and dip tube with Luer connector to join to feed line tubing. These are replacement bottles. Pack contains 4 feed reservoir bottles.





## Bottle Lids

### **ambr 250 robot compatible bottle lid, large**

Part no. 001-2G83

The system is installed with bottle lids and these can be bought as spares. These lids are designed for the 1 L bottles and built in such a way to enable the liquid handler to easily but steadily lift them from and back on to the bottle. These lids can be sterilized and reused. Pack contains 1 bottle lid.

### **ambr 250 robot compatible bottle lid, small**

Part no. 001-2G82

The system is installed with bottle lids and these can be bought as spares. These lids are designed for the 175 mL bottles and built in such a way to enable the liquid handler to easily but steadily lift them from and back on to the bottle. These lids can be sterilized and reused. Pack contains 1 bottle lid.



## Filters

### **ambr 250 wash circuit filter, pack of 1**

Part no. 001-2G92

This is a 0.2  $\mu\text{M}$  liquid filter; the filter is connected to the wash circuit that ensures the pump housing remains sterile. The ambr 250 high throughput unit comes with a wash circuit filter installed and this one can be used to replace it, if it requires changing. Pack contains 1 filter.

### **ambr 250 air filter, pack of 10**

Part no. 001-2G91

## Stirring Fleas

### **Large magnetic stirring flea, pack of 5**

Part no. 001-2G89

The large magnetic stirrers are designed for the 1 L reagent bottle. These magnetic stirring fleas are designed to ensure that the reagent bottles do not get damaged regardless of the stirrer speed. Pack contains 5 stirring fleas.

### **Small magnetic stirring flea, pack of 5**

Part no. 001-2G88

The large magnetic stirrers are designed for the 175 mL reagent bottle. These magnetic stirring fleas are designed to ensure that the reagent bottles do not get damaged regardless of the stirrer speed. These can be sterilized. Pack contains 5 stirring fleas.

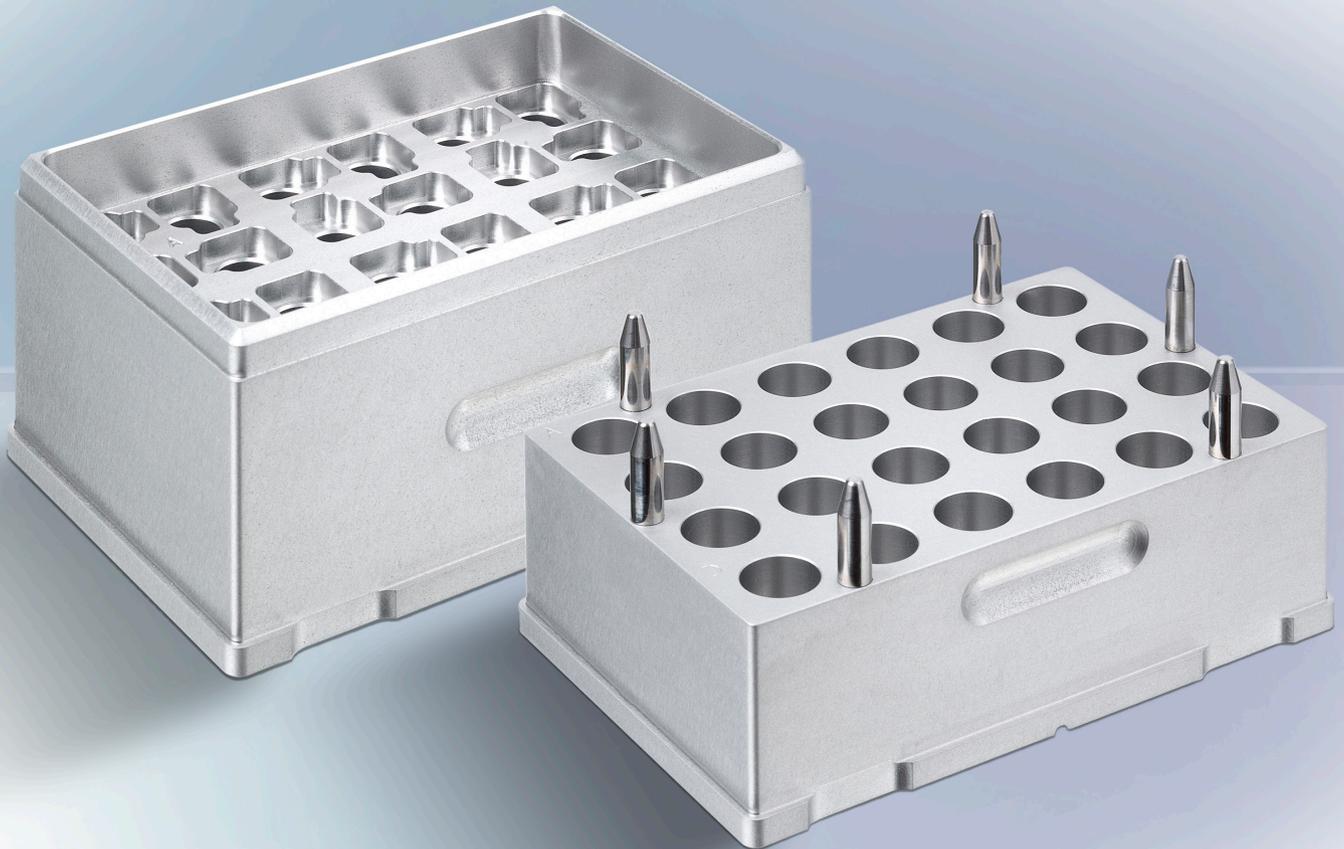
## ambr<sup>®</sup> 250 consumables contracts

ambr 250 consumables are also available to order as part of a supply contract. With regular pre-agreed shipments every three months, the consumables contract removes the need for frequent re-ordering of ambr 250 consumables and also provides a discount according to the quantity agreed.

For further details please contact:  
[royston-orders@sartorius.com](mailto:royston-orders@sartorius.com)

# Accessories

Below is a list of accessories currently available for the ambr 250 high throughput system. To order accessories, please visit [www.sartorius-stedim-tap.com](http://www.sartorius-stedim-tap.com) or contact [royston-orders@sartorius.com](mailto:royston-orders@sartorius.com)



## Racks

### ambr 250 vessel rack

Part no. 001-2G99

This is a poly-carbonate rack that enables the user to easily carry up to 6 ambr 250 high throughput bioreactor vessels in a safe manner. It has been designed for easy clean and decontamination.

### Cell counter sample cup rack

001-2G59

Microplate format rack for loading 24 ViCell/Cedex sample cups onto the ambr.

### 2 mL micro-centrifuge tube rack

Part no. 001-2G55

Rack for holding 2 mL centrifuge tubes with the caps removed. This rack enables tubes to be correctly stacked on the work station sample positions.

### Spare labware holder for 15 mL conical tubes

Part no. 001-2G56

Rack for holding 15 mL screw capped centrifuge tubes with caps removed.

### Spare labware holder for 'Packard' vials

Part no. 001-2G58

Rack for holding 18 mL screw capped vials with caps removed.

## Tools and Adaptors

### ambr 250 clamp plate tool

Part no. 001-2G85

This tool is used to secure the clamp plate into position while reducing the risk of over tightening the screw. This is a spare tool that would replace the one provided with the full unit.



### Deep well plate adapter

Part no. 001-2G57

ambr 250 deep well adapter this is used to hold a deep well 'V' bottom plates with its lid in place and ensure that the temperature is maintained at the set point. This is a spare part and only required if using deep well 'V' bottom plates on the work station.



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For further contacts, visit [www.sartorius-stedim.com](http://www.sartorius-stedim.com)

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