

stomacher® 80 *biomaster*

The Stomacher® for processing tissue

- 250ul to 80ml sample capacity
- Diluent free sample processing
- Maximize extraction
- No temperature increase
- 5000 fold improvement in cell recovery and viability
- 3 year warranty and 10 year service support



Stomacher® 80 *micro* Biomaster

Tens of thousands of referenced methods available and now with the enhanced sample capacity range of the *micro*Biomaster the Stomacher® 80 is the World's most efficient and versatile sample preparation system for life science applications.

The Stomacher® 80 Biomaster, *micro*Biomaster and Stomacher® Bags allow samples to be processed safely and without risk of cross contamination at the same time as maximizing the effectiveness of your subsequent protocols.

technical

The Stomacher® 80 Biomaster range of Stomacher® Bags and machines is a comprehensive range of sample preparation equipment for processing and handling tissue samples.

This range represents 20 years of experience in this field and Seward's close relationship and collaboration with scientists in protocol development.

New techniques and the enhanced sensitivity of down stream processing techniques demand smaller samples without reducing sample quality or risk of cross contamination.

Stomacher® 80 addresses these needs and preserves the aspects of safety and convenience of use that has made it the world's most popular homogeniser in life science. Any literature search for a sample preparation protocol on Stomacher® 80 will derive thousands of

references. For additional assistance in method development Seward has its own laboratory in-house and can assist you through access to a vast database of established procedures.

Sample preparation is often the first and most important stage in any analysis. Stomacher® is the best guarantee of ensuring your results are reproducible and optimised.

Enhanced Stomacher® 80 Bag range features closure and strainer bag formats double bags for biosafety and the new microBag for effective homogenisation and sample recovery below 1 ml volumes.



BA6040/MICRO
50 bags in sachets of 1



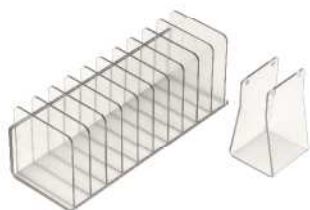
BA6040/STR/DBL
200 bags in sachets of 10



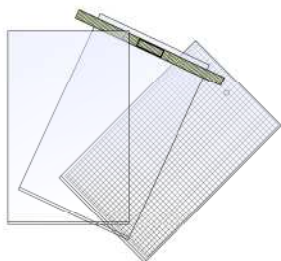
Stomacher® 80 *micro*Biomaster with adjustable door to allow in process paddle pressure variation.



code	description	volume
0080/000/EU	Stomacher® 80 Biomaster 220/240V	5-80ml
0080/000/AJ	Stomacher® 80 Biomaster 100/110V	5-80ml
0080/000/EU/M	Stomacher® 80 <i>micro</i> Biomaster 220/240V	250ul-80ml
0080/000/AJ/M	Stomacher® 80 <i>micro</i> Biomaster 100/110V	250ul-80ml
P/1/1232	Stomacher® 80 Biomaster <i>micro</i> door upgrade Available for MK 2 80 models contact your local supplier or Seward Ltd	



code	description
BA6098	Bag opener
BA6090	10 place bag rack



code	bag type	pack size
BA6040	Standard	2000 bags in sachets of 50
BA6040/CLR	Closure	200 bags in sachets of 10
BA6040/STR	Strainer	200 bags in sachets of 10
BA6040/CLR/STR	Closure and Strainer	200 bags in sachets of 10
BA6040/STR/DBL	Strainer Double bag	200 bags in sachets of 10
BA6040/MICRO	<i>micro</i> Stomacher® Bag	50 bags in sachets of 1



Puja Engineering

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stomacher® 400 circulator

The Stomacher® for food microbiologists

- Improved organism recovery
- "Hands-free" auto-run
- Countdown of processing time
- Durable and reliable
- Programmable paddle speed and time
- 3 year warranty and 10 year service support



Whatever the method you use to enumerate and identify the bacteria, yeasts and moulds in your laboratory, thorough reproducible homogenisation of the sample is the first and most critical step.

The Stomacher® 400 Circulator is the World's leading laboratory blender. When food safety and quality matter the Stomacher® can be relied on to safeguard your reputation.



technical

The Stomacher® Circulator principle improves organism recovery over older square paddle designs by enhancing the stirring and extrusion forces applied to the Stomacher® Bag contents.

This is achieved by the combination of curved paddles, the central island baffle and the round bottomed Stomacher® Bag.

In operation the paddles crush the sample but also circulate the bag contents. The circulating action enhances the washing action applied to the sample debris as it is crushed. The result is more organisms driven into suspension.

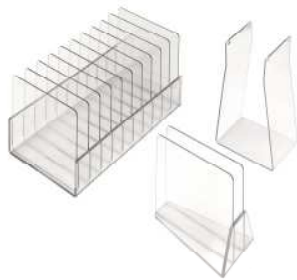
If the organisms are not released from the sample matrix they will not grow or multiply in any

subsequent culturing or selective isolation procedure.

Numerous studies have now been completed demonstrating this enhancement as a positive benefit to pathogen testing procedures in traditional microbiology and PCR based techniques.



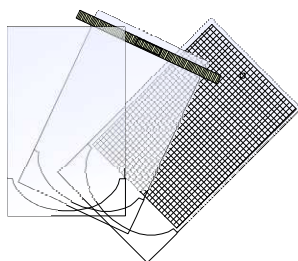
code	description
0400/001/EU	Stomacher® 400 Circulator 220/240V
0400/001/AJ	Stomacher® 400 Circulator 100/110V



code	description
BA6091	1 place bag rack
BA6095	Bag opener
BA6096	10 place bag rack



Cardboard and plastic carry pack



code	bag type	pack size	pack type
BA6141	Standard	500 bags in sachets of 50	Cardboard
BA6141/5	Standard	500 bags in sachets of 5	Cardboard
BA6141/CPG	Standard	500 bags in sachets of 50	Plastic Carry Pack
BA6141/CLR	Closure	250 bags in sachets of 10	Cardboard
BA6141/STR	Strainer	200 bags in sachets of 10	Cardboard
BA6051	Simplettes	2000 in sachets of 50	Cardboard
BA6099	Bag Clips	200 in sachets of 25	Cardboard



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stomacher® 3500 jumbo

The Stomacher® range for large volume applications

- ▶ 400-3500 ml volume samples
- ▶ *Trichinella* testing
- ▶ *Cryptosporidium* and *Giardia* testing
- ▶ Bioburden testing of garments and dressings
- ▶ Forensic residue analysis
- ▶ 3 year warranty and 10 year service support

Jumbo Stomachers® have a wide range of documented uses for the extraction of organisms and chemical residues from a variety of materials.



The Stomacher® 3500s are a versatile range of tools for large volume blending and extraction where all the washing solution or solvent needs to be retained for analysis.

 **seward**
world leaders in sample preparation

technical

Stomacher® 3500 Jumbo

The Jumbo is used where large volume blending is required. The blending of powders with diluent and the microbiological testing of complete recipe dishes are two popular applications.

Stomacher® 3500 Biowasher

The Biowasher was originally designed to process the large volume of filter fibres derived from cartridge filters used in testing water for parasites.

The technique involves filtering very large amounts of water and extracting the material

retrieved to stain and microscopically observe for *cryptosporidium* and *giardia*.

The Stomacher® method for preparing the samples is referenced throughout the world for this technique.

Stomacher® 3500 Bioreactor

The Bioreactor is used in the pork industry to prepare samples for analysis for *Trichinella*.

The machine has a heater element inside the door and the samples of pork meat are digested inside the bag with enzyme and HCl acid. The resultant slurry is sieved and examined under

microscopy for the presence of the *Trichinella* parasite.

The Stomacher® technique is the world standard for this application. All pork products imported into the EU and the USA have to have traceability back to the beast from which the meat was obtained.

Trichinella testing is an essential part of that documentation.

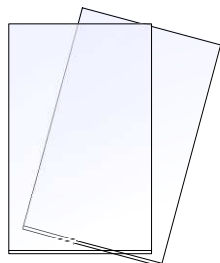
The Bioreactor has a number of additional applications based on its ability to blend and incubate simultaneously and it can be used in a range of enzyme digestion processes and fermentation applications.



code	description
3500/000/EU	Stomacher® 3500 Jumbo 220/240V
3500/000/AJ	Stomacher® 3500 Jumbo 100/110V
3500/001/EU	Stomacher® 3500 Biowasher 220-240V
3500/001/AJ	Stomacher® 3500 Biowasher 100/110V
3500/002/EU	Stomacher® 3500 Bioreactor 220/240V
3500/002/AJ	Stomacher® 3500 Bioreactor 100/110V



code	description
BA6094	3 place bag rack



code	bag type	pack size
BA6042	Standard	250 bags in sachets of 50
BA6042/HD	Heavy Duty Standard	250 bags in sachets of 50

Heavy duty bags are designed for processes requiring more than 15 minutes on the machine



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