

**MERCK**

# THE REVOLUTION IN MEDIA PREPARATION

The **ReadyStream®** system –  
enter the new era  
of media preparation

MilliporeSigma is the U.S. and Canada  
Life Science business of Merck KGaA,  
Darmstadt, Germany.

**Millipore®**

Preparation, Separation,  
Filtration & Monitoring Products

# Media preparation

## TODAY

## TOMORROW

### Autoclave/Media Preparator

Classical culture media production from dehydrated culture media using autoclave or Media preparator



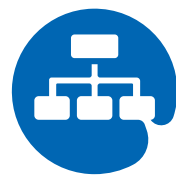
Time consuming



Highly manual work



Need to clean lab equipment



Organizational effort to pre-warm media



High water and energy consumption

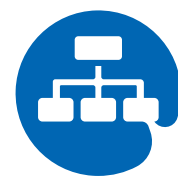


Significant investment & intensive maintenance

### Ready-to-use Media



Only small media volumes



Organizational effort to pre-warm media



Need to transport and carry heavy bags



Require substantial storage space



High plastic waste generation



Non-sustainable transportation



### ReadyStream® system



Only 20 min to obtain 100 L culture media ready for immediate dispensing



Limited manual work required in clean and healthy work environment



No autoclaving and cleaning of lab equipment needed



Light and compact bags can be easily carried through bag and stored in warehouse



Dispensing of pre-heated media as needed



Minimal water and energy consumption as well as waste generation

**Save space in your storage area and lab.**

**Rethink how you prepare & dispense media**

with the revolutionary ReadyStream® system

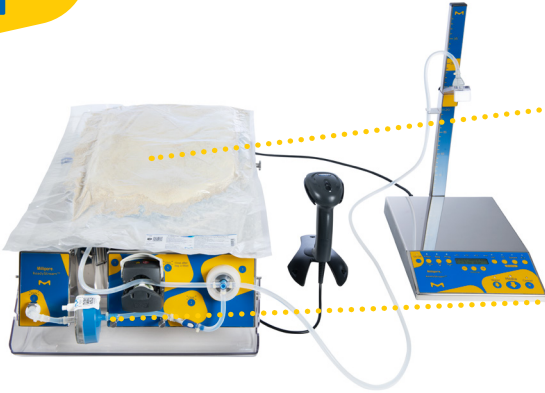


100 L of preheated, ISO compliant Culture Media, prepared in only 20 minutes

# HOW IS THAT POSSIBLE?

step  
1

Installation of the ReadyStream® bag and filter as well as instrument calibration in about 5 minutes

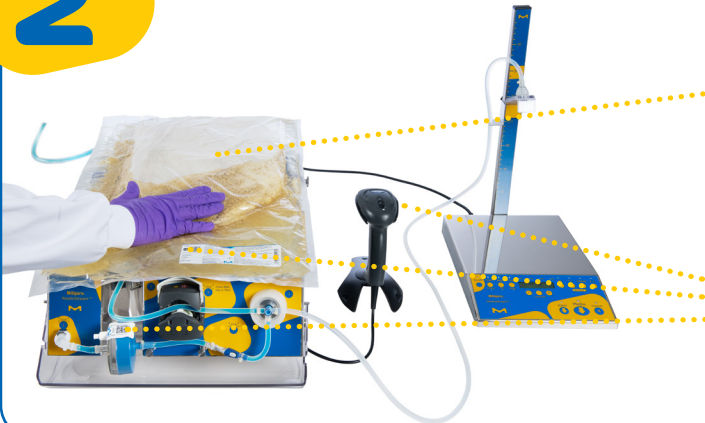


The ReadyStream® bags are irradiated, come pre-filled with our superior GranuCult® prime dehydrated culture media.

The disposable ReadyStream® filter set contains a 0.22 µm sterile filter allowing purification of 600 L ISO 11133 compliant water.

step  
2

15 minutes for rehydrating the media bag



Water delivered through the ReadyStream® system rehydrates the media, generating a 10x concentrated media syrup.

By scanning the data matrix code on the consumables, the system tracks the media type, consumable's capacity, and shelf life.\*

READY

100 L media ready to dispense



Thanks to the 10x media concentrate this bag delivers 100 L media.\*\*

At the push of a button, the media is dispensed at the required volume, temperature, concentration and flow rate – all adjustable in presets.

\* Shelf life of ReadyStream® TSB is 10 days and for ReadyStream® BPW 5 days after first rehydration.

\*\* For ReadyStream® BPW, smaller bags delivering 30 L of media are available too.

# choose your future lab setup

## FROM 3 OPTIONS

# 1

## Standard ReadyStream® Setup - High Volume Users

- Simple setup, easy to install
- Can be used for any sample size but in particular suited for large sample sizes and dispensing volumes e.g., 3375 mL



# 2

## In-Line Connection - Connect it to any dilutor!

- Convenient connection to 1 or 2 dilutors at the same time
- Suited for small sample sizes, e.g., 25 g
- No change of connections required
- Addition of supplements possible



# 3

## Flex Connect - For separated media kitchen and sample prep locations

- Enhanced flexibility thanks to quick connection/disconnection
- Prepare media and dispense it independently from instrument location
- Pre-filling of several bottles and temporary storage or delivery at different dilutor positions possible
- In particular suited for small sample sizes
- Addition of supplements possible



# Enhancing sustainability and operational efficiency

Classic media kitchen complete workflow for processing 100 L media

15 hours 905 L 50,2 kWh

ReadyStream® complete workflow for processing 100 L media

2 hours 102 L 1,6 kWh



## Energy & Water:

No need for resource intensive autoclaving and lab equipment cleaning, enabling significant savings in energy and water consumption compared to traditional media culture media production from dehydrated culture media.



## Time:

Efficiently prepare large quantities of preheated media at the push of a button, with the smart and innovative ReadyStream® process, saving significant time and effort compared to conventional culture media solutions.

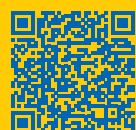


## Waste:

Reduce waste compared to ready-to-use media: 1 ReadyStream® bag delivers same media volume like 10 classic ready-to-use media bags.



The ReadyStream® platform is awarded with the green icon for greener alternative products.

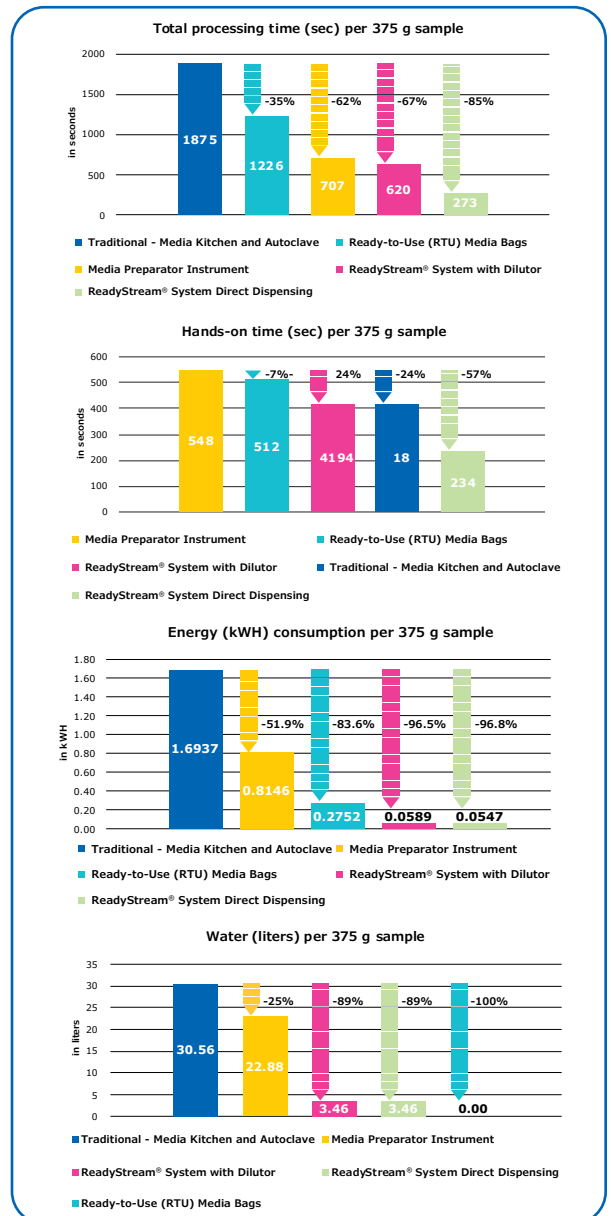


More information on this program can be found here

Data derived from a study investigating food testing processes from media preparation to primary dilution, executed by an independent external food testing (BAV INSTITUT GmbH, A Tentamus Company).



To access full study report scan or click on the QR code.



## With the ReadyStream® system, you can

- in about 20 minutes prepare up to 100 L of media
- dispense pre-heated media of the volume, temperature and concentration you need
- easily store and carry the bags containing dehydrated media (less than 3 kg for the biggest bag)
- save energy, water and waste to meet your sustainability goals

And there's no need for autoclaving, bottles and washing, saving you time that surely can be well deployed for higher value tasks.

Don't wait to try our ReadyStream® system,

## Ordering information

Product	Packaging	Ordering No.
30 L ReadyStream® Media Bag GranuCult® <b>Buffered Peptone Water</b>	10x 30 L Media bags with dehydrated media*	5.74846.0030
100 L ReadyStream® Media Bag GranuCult® <b>Buffered Peptone Water</b>	3x 100L Media bags with dehydrated media*	5.74846.0100
100 L ReadyStream® Media Bag GranuCult® <b>Tryptic Soy Broth</b>	3x 100L Media bags with dehydrated media*	5.77000.0100
ReadyStream® Filter Set	5x Filter sets	5.74826.0001
ReadyStream® System	1x	RDYSTRM01
Female Connector for ReadyStream® Bag (for Dilutor Connection)	1x 5x	RDYFCON01 RDYFCON05

\*Bags are shipped with dry media which will be reconstituted with the ReadyStream® system. The 10x concentrated media allows dispensing of up to 30 L and 100 L, respectively, of 1x concentrated media with the different bag sizes.



To place an order or receive technical assistance in Europe, please call Customer Service:

France: 0825 045 645

Spain: 901 516 645 Option 1

Germany: 069 86798021

Switzerland: 0848 645 645

Italy: 848 845 645

United Kingdom: 0870 900 4645

For other countries across Europe, please call: +44 (0) 115 943 0840

Or visit: [SigmaAldrich.com/offices](https://www.SigmaAldrich.com/offices)

For Technical Service visit: [SigmaAldrich.com/techservice](https://www.SigmaAldrich.com/techservice)

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