

MERCK

THE REVOLUTION IN MEDIA PREPARATION

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

The Life Science business of Merck
operates as MilliporeSigma in
the U.S. and Canada.

Millipore®

Preparation, Separation,
Filtration & Monitoring Products

Media production TODAY

Autoclave/Media Preparator

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



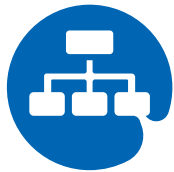
Time consuming



Highly manual work



Need to clean lab equipment



Organizational effort to pre-warm media



High water and energy consumption



Significant investment & intensive maintenance

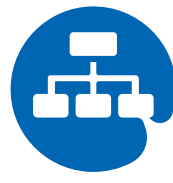
X600
bottles
of 1 L



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

X120
bags
of 5 L



Preparation TOMORROW

600 L
OF MEDIA

X2
cardboard
boxes



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**

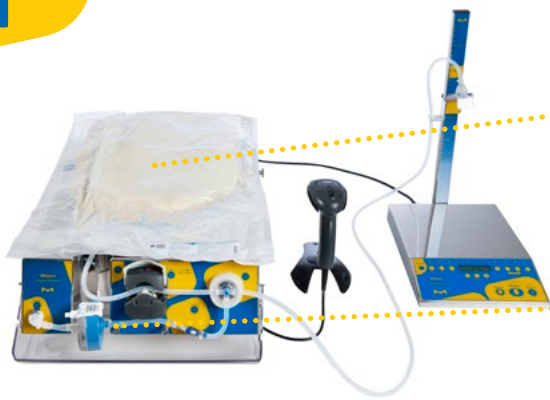
with the revolutionary ReadyStream® system

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 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.

*For ReadyStream® BPW, smaller bags delivering 30 L of media are available too, ReadyStream® Half-Fraser is 5x concentrated, delivering a final media volume of 50 L.

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.

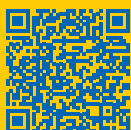


Waste:

Reduce waste compared to ready-to-use media: one 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.

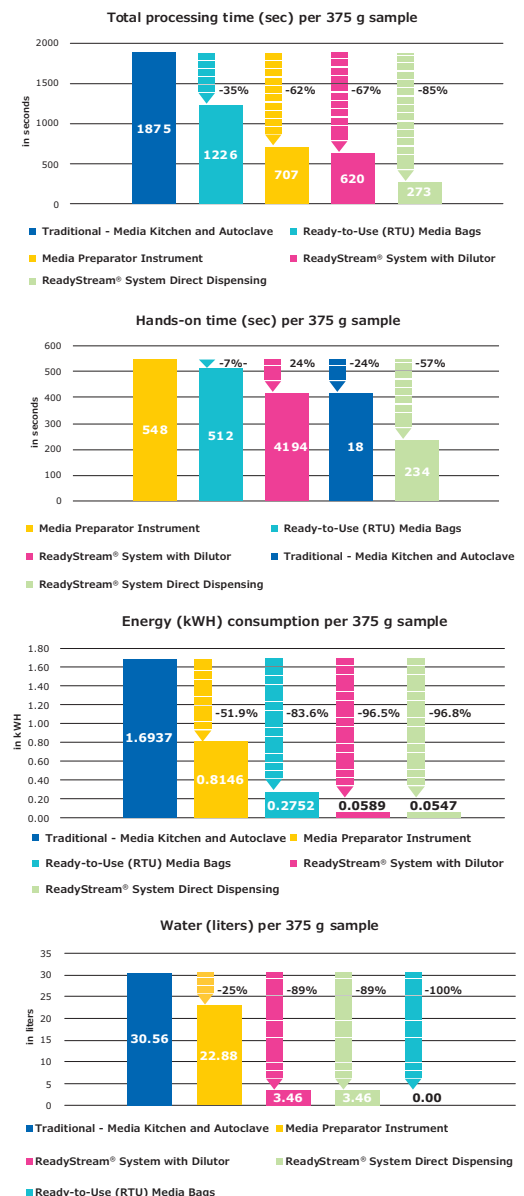


More information
on this program
can be found here

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.



Choose from our **comprehensive service offerings** to enhance your instrument reliability and keep your operations running smoothly.



For routine upkeep, the Essential Plan provides the necessary maintenance and support. For your peace of mind and comprehensive coverage, the Total Plan ensures your system remains fully operational with minimal downtime, even in high-demand environments. Both plans can be serviced on-site or at our repair center.

With the ReadyStream® system, you can

- Prepare up to 100 liters of media in about 20 minutes.
- Dispense pre-heated media at the volume, temperature and concentration you need
- Easily store and carry bags containing dehydrated media (weighing less than 3 kg for the largest bag)
- Save energy, water, and reduce waste to meet your sustainability goals

And there's no need for autoclaving, bottles or washing, saving you time that surely can be better spent on higher value tasks.



Don't wait to try our ReadyStream® system



[SigmaAldrich.com/
ReadyStream-Demo](https://SigmaAldrich.com/ReadyStream-Demo)

[Request a Demo](#)

Ordering information

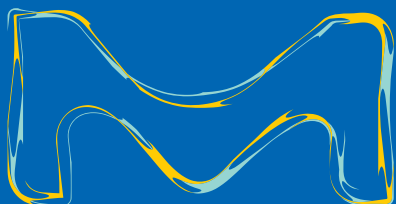
Product	Packaging	Ordering No.
30 L ReadyStream® Media Bag GranuCult® Buffered Peptone Water	10x 30 L Media bags with dehydrated media	5.74846.0030
100 L ReadyStream® Media Bag GranuCult® Buffered Peptone Water	3x 100 L Media bags with dehydrated media	5.74846.0100
50 L ReadyStream® Media Bag GranuCult® Half-Fraser	3x 50 L Media bags with dehydrated media	5.70010.0050
100 L ReadyStream® Media Bag GranuCult® Tryptic Soy Broth	3x 100 L 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
Essential Service Plan, Workshop or On-site Total Service Plan, Workshop or On-site	-	Contact your local Sales representative

Millipore®

Preparation, Separation,
Filtration & Monitoring Products

Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt, Germany

SigmaAldrich.com/ReadyStream



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For Technical Service visit: **SigmaAldrich.com/techservice**

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unrivalled experience in supporting your scientific advancements.

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