

HyClone cell culture products

# Rapid Response Production

Understanding time is money



# Rapid Response Production

Rapid Response Production (RRP) facilitates faster bioprocessing research, process development, and production. When small volumes of customized cell culture products are required quickly, call on our RRP service. We typically manufacture within five business days of your order.

RRP can replicate standard manufacturing practices for customized quick-turnaround media, supplements, and reagents packaged in bottles or single-use containers. Powdered media and reagents are also available.

## Meeting your production needs

RRP can help when you are developing industrial cell culture processes that require quick evaluation of customized or optimized media and buffers to facilitate timely final product selection and implementation. RRP also allows for faster confirmation of prototype selection prior to cGMP manufacturing, as well as quick non-cGMP manufacturing runs that mimic cGMP manufacturing to test processes when time is of the essence.

From a research perspective, where several minor modifications of existing medium and reagent formulations can be necessary to obtain the desired outcome, RRP provides a small-volume, quick-turnaround solution.



## Rigorous manufacturing capabilities

Our global RRP facilities offer high-quality cell culture products through adherence to consistent and replicable manufacturing practices. While not a cGMP service, documentation of RRP lots provides component-specific tracking and facilitates expedited technical transfer to cGMP manufacturing.

The RRP facilities are operated with strict access and stringent operational restrictions. Personnel are trained in accordance with established manufacturing practices, and single-contact, animal-derived component-free manufacturing equipment or facilities can be used as necessary. Standard quality control tests are available to confirm or establish production specifications.

## Key features of Rapid Response Production

- Flexibility in formulations
- Short time to delivery
- Efficient future transfer to cGMP production
- Uniformity in global processes for consistency

## Raw materials

The materials used in preparing RRP products are manufactured using the same high-quality components used in all cGMP facilities manufacturing HyClone™ products. These components have quality control acceptance and vendor lot traceability. Should your RRP lot require components not presently qualified, they will be sourced from your preferred vendor or another approved vendor.



## Quality control

Various quality control parameters can be measured to establish or confirm specifications for information only, not as release criteria.

Additional customized testing can be performed upon request.

### Liquid media

- Sterility
- pH
- Osmolality
- Endotoxin
- Appearance

### Powdered media

- Moisture
- Solubility
- pH
- Osmolality
- Bioburden  
(FIO\* not release criteria)

\* For information only.



## Delivery systems

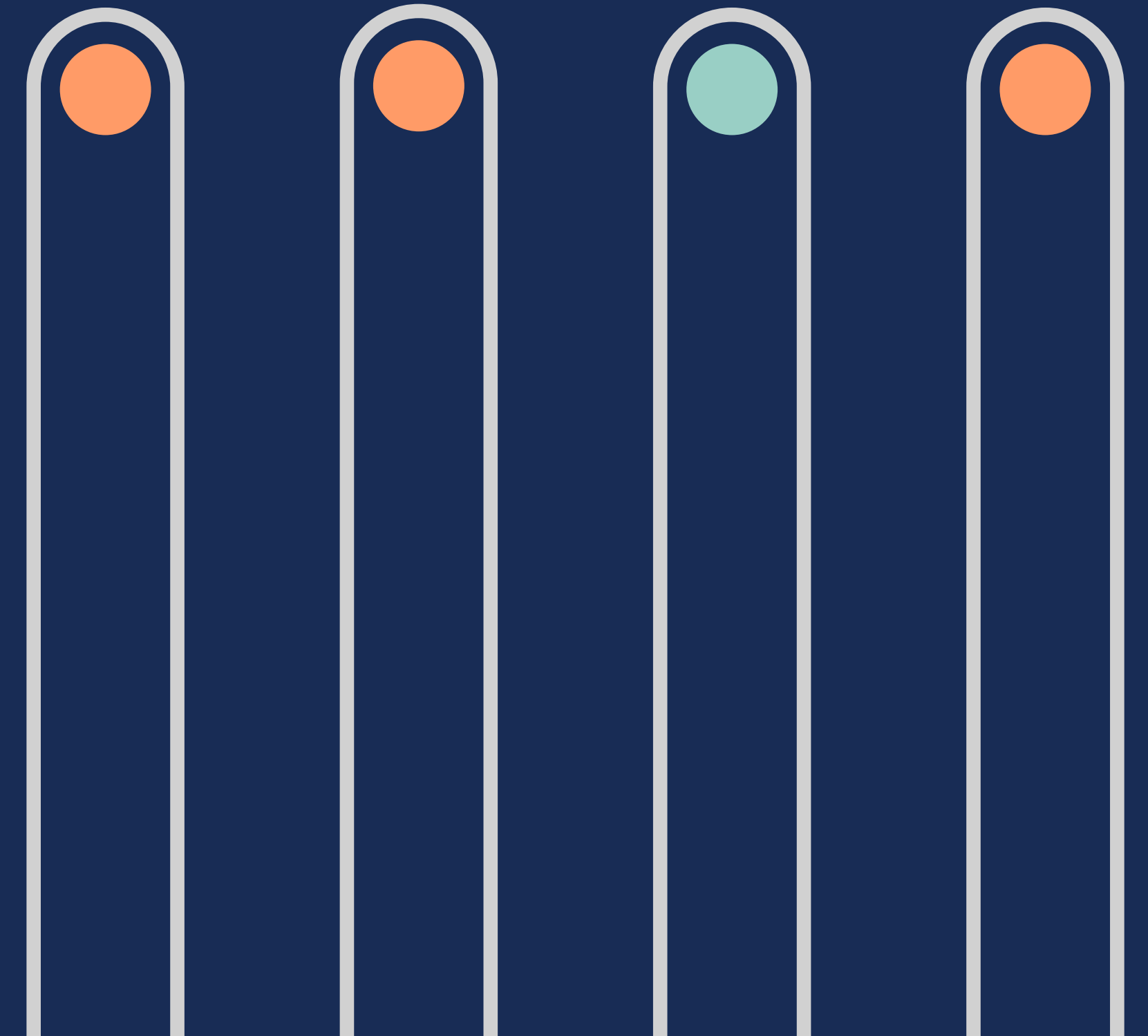
A wide range of standard packaging sizes and delivery systems are offered to meet specific product requirements. In addition, custom packaging is also available.

Format	Delivery system	Lot sizes
Liquid	100 mL bottles	10 to 20 L
Liquid	500 mL bottles	10 to 100 L
Liquid	1000 mL bottles	10 to 200 L
Liquid	5 to 200 L*	10 to 200 L
Powder	Volume-specific (L)*	500 g to 20 kg
Powder	Bulk powder*	500 g to 20 kg

\* Single-use containers

## RRP requests

To request RRP services, please contact your Cytiva sales representative or customer service at (800) 492-5663 or by email at [cs.hyclone@cytiva.com](mailto:cs.hyclone@cytiva.com).



## [cytiva.com/hyclone](https://www.cytiva.com/hyclone)

Cytiva and the Drop logo are trademarks of Global Life Sciences IP Holdco LLC or an affiliate. HyClone is a trademark of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva.

©2020 Cytiva

For local office contact information, visit [cytiva.com/contact](https://www.cytiva.com/contact)

CY14265-23Sep20-BR

