General Protocol

PlaqueReady™ Plates

CRYOLOGYX

Simplifying and accelerating cell-based assays

PlaqueReady™ Vero 96 Well Plates

General thaw-and-use protocol to prepare PlaqueReady™ Vero 96 well plates for any assay.

REF: VERO0096PSCLHIG

Introduction

PlaqueReady™ Vero 96 well plates remove the need for routine cell culture by offering Vero cells cryopreserved adhered onto a 96 well plate. Simply store the well plates in a -80 °C freezer until they're required for use.

This protocol outlines the simple steps necessary to ensure the optimal revival of Vero cells in PlaqueReady™ Vero 96 well plates, making them assay-ready 24 hours post-thaw. Once thawed, PlaqueReady™ Vero 96 well plates can be used for any subsequent application. Application notes are available for specific assay protocols.

PlaqueReady™ Vero 96 well plates are provided at >70% confluency to ensure compatibility with viral infectivity assays.

Storage

Store in a -80 °C freezer. Use by expiry date.

Not Included

Component	Quantity	Description	Storage
Minimum Essential Medium Eagle	500 mL	Base medium (e.g., Merck M4655)	4°C
Fetal Bovine Serum	50 mL	Growth supplement (e.g., Merck F7524)	-20°C
Antibiotic-Antimycotic (100x) (optional)	5 mL	Contamination prevention (e.g., Thermo Fisher 15240062)	-20°C

Prepare in Advance

- Complete Eagle's Minimum Essential Medium:

1. Remove 55 mL of Eagle's Minimum Essential Medium
2. Add 50 mL of fetal bovine serum (final concentration 10%)
3. (optional) Add 5 mL of antibiotic-antimyotic (final concentration 1%)

- Pre-warm medium to 37 °C before removing plates from the -80 °C freezer.

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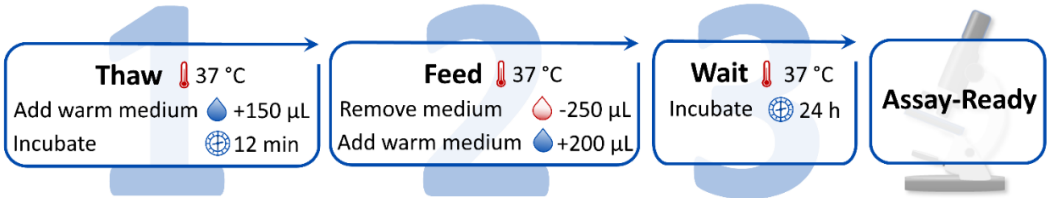
Procedure



Method

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1.1 Remove no more than 3 x PlaqueReady™ Vero 96 well plates from the -80 °C freezer.

1.2 Remove protective film and add 150 µL of warm complete cell culture media (warmed to 37 °C) to every well.

1.3 Place the plates in an incubator set at 37 °C and 5% CO_2 for 12 mins to allow the cells to thaw.

1.4 Remove the plate from the incubator and ensure that the cells have completely thawed.

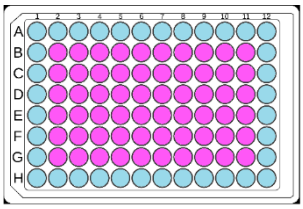
Note: To confirm this, no ice should be present at the bottom of the wells. If there is, return to the incubator until completely thawed.

2.1 Remove the medium + cryoprotectant solution (250 µL).

2.2 Add 200 µL of warm complete cell culture media (warmed to 37 °C).

3.1 Place the plates in an incubator set at 37 °C and 5% CO_2 for 24 hours.

Cells are ready for use in all major assays. No cells are present in rows A and H and columns 1 and 12 (highlighted blue) to avoid assay edge effects.



Notes

For additional product information please consult the product specification document and certificate of analysis. FAQs and Assay protocols can be found at www.cryologyx.com under the resources section.

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