LCMV Plaque Assay Medium

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Protocol ID: BUF-LCMV-PLA **Version:** v1.1 **Author:** Dillon Corvino **Date:** 2026-09-18

Purpose

Medium used to overlay infected Vero cell monolayers during LCMV plaque assays.

Table of contents

Purpose 1

Linked protocols 1

Working buffer composition 2

Preparation 2

A. Preparation of stock (if applicable) . . . 2

B. Preparation of working buffer . . . 2

Storage and stability 2

Reagent details 2

Safety (brief) 3

Version history 3

Linked protocols

- `MUS-LCMV-PLA`

Working buffer composition

Final volume: 250 mL

Component	Amount
2x Eagle MEM without phenol red	250 mL
200 mM L-glutamine	5 mL
Heat-inactivated FBS (10%)	25 mL
Pen/Strep (10,000 U/mL penicillin G, 10,000 ug/mL streptomycin)	5 mL
Fungizone (amphotericin B 250 ug/mL)	2.5 mL

> **Note**
>
> Fungizone is optional but recommended to prevent fungal contamination.

Preparation

A. Preparation of stock (if applicable)

Not applicable — prepared directly as the working buffer.

B. Preparation of working buffer

1. Combine all components in a sterile bottle.
2. Mix thoroughly by gentle inversion.

Storage and stability

- Store at **4°C** for up to **4 weeks**.

Reagent details

Component	Supplier	Cat#	Notes
2x Eagle MEM without phenol red	[TBD]	[TBD]	Base medium
200 mM L-glutamine	[TBD]	[TBD]	
FBS	[TBD]	[TBD]	Heat-inactivated
Pen/Strep	[TBD]	[TBD]	10,000 U/mL penicillin G, 10,000 ug/mL streptomycin

Component	Supplier	Cat#	Notes
Fungizone (amphotericin B)	[TBD]	[TBD]	250 ug/mL; optional but recommended to prevent fungal contamination

Safety (brief)

- FBS is of animal origin and should be treated as a potential biohazard.
- This medium overlays LCMV-infected Vero cell monolayers — handle infected plates and this medium according to institutional biosafety protocols for virus-containing material.

Version history

Version	Date	Author	Changes
v1.0	2025-12-01	Dillon Corvino	Initial Quarto buffer document
v1.1	2026-09-18	Dillon Corvino	Migrated to shared summary:/helper architecture (buffer/protocol redesign); added Storage/Safety/Reagent-details sections.