# L929 Cell Propagation Medium

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**Protocol ID:** BUF-L929-PROP **Version:** v1.1 **Author:** Dillon Corvino **Date:** 2026-09-18

## Purpose

This medium is used for routine propagation of L929 fibroblasts. L929 cells are used as an alternative host cell line for LCMV propagation, particularly for certain strains such as Traub.

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## Linked protocols

- `MUS-LCMV-PROD`

## Working buffer composition

**Final volume: 500 mL**

| Component | Amount | Final concentration |
|---|---|---|
| DMEM (high glucose, with L-glutamine) | 475 mL | Base medium |
| Heat-inactivated FCS/FBS | 25 mL | 5% (v/v) |

> **Note**
>
> L929 cells are mouse fibroblasts commonly used for LCMV propagation. The lower FCS concentration (5%) compared to other cell lines is standard for L929 maintenance.

## Preparation

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

Not applicable — prepared directly as the working buffer.

### B. Preparation of working buffer

1. In a sterile biosafety cabinet, add ~450 mL of DMEM to a sterile 500 mL bottle.
2. Add 25 mL heat-inactivated FCS/FBS.
3. Top up with DMEM to a final volume of **500 mL**.
4. Mix gently by inversion.
5. Label with:
    - "L929 propagation medium (DMEM + 5% FCS)"
    - Date of preparation
    - Initials
6. Warm medium to **37°C** before use with cells.

## Storage and stability

- Store at **4°C** for up to **4 weeks**.
- Discard medium if there is any sign of contamination (turbidity, threads, pH shift) or if it is past the defined expiry (4 weeks from preparation).

## Reagent details

| Component | Supplier | Cat# | Notes |
|---|---|---|---|
| DMEM (high glucose, with L-glutamine) | [TBD] | [TBD] | Base medium |
| FCS/FBS | [TBD] | [TBD] | Heat-inactivated; 5% (v/v) final — lower than the 10% typically used for other lines |

## Safety (brief)

- FCS/FBS is of animal origin and should be treated as a potential biohazard.
- This medium is used to propagate L929 cells for LCMV production workflows — follow institutional biosafety protocols when handling virus-associated cultures.

## Version history

| Version | Date | Author | Changes |
|---|---|---|---|
| v1.0 | 2026-03-31 | 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. |