LEADGENE
LEADGENE BIOMEDICAL, INC.

Product Information & Manual

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Leadgene® XenoForm Tumor Gel

Cat no. LDG0006RO

Product Overview

Package component

Item	25 assays	50 assays
Tumor forming Gel (1X)	1 vial (2.5 mL)	1 vial (5 mL)
Dilution Buffer (1X)	1 vial (2.5 mL)	1 vail (5 mL)

Product description

XenoForm Tumor Gel is made from synthetic biological materials, which can provide extracellular matrix microenvironment without the risk of zoonotic pathogens or toxins. It has high activity, stability, biocompatibility, safety, and can be operated at room temperature. It is also easy to inject and allows self-adjustment of gel density. This product can be used in tumor growth experiments with various mouse cancer models.

Storage and expiration date of reagents

- Stored at 2-8°C. The Dilution Buffer should be used within one week after opening. It is not recommended to store the Tumor forming Gel after opening to avoid the effects of repeated freezing and thawing.
- All reagents are stable for two years under proper storage conditions.

Procedure

- **Gel Preparation**

(1) Dissolve the Tumor forming Gel in 37°C water bath or incubator for at least 10 minutes.

(2) Dilute the Dilution buffer with 37°C prewarmed serum-free DMEM to 0.25X or 0.5X (1.25 mL Dilution buffer (1X) + 3.75 mL serum-free DMEM) (2.5 mL Dilution buffer (1X) + 2.5 mL serum-free DMEM)

(3) Mix the cancer cell pellet with Dilution buffer to the concentration of 4 x 10^6 cells/mL.

(4) Mix the solution and Tumor forming Gel (1X) in a 1:1 ratio to a final concentration of 2 x 10^6 cells/mL.

(5) Use a 23-26 gauge needle (24 gauge recommended) and a 1 ml syringe to extract 0.2-0.3 mL gel mixture at room temperature. Let the gel mixture stand for 10 minutes at room temperature.

(6) Transport the syringes at room temperature.

- **Gel injection of mouse**

(1) Inject the gel mixture subcutaneously into the mouse at room temperature.

(2) Measure the size of the tumor weekly and remove the tumor tissue after 4-5 weeks for proceeding assays.

Notes

(1) Tumor forming Gel and Dilution Buffer should be prewarmed at 37°C before use.

(2) Using 0.5X Dilution Buffer can increase gel hardness and subcutaneous swelling after injection, but it may impact tumor growth rate.

(3) If blockage occurs during extraction, remove the needle and use syringe instead. Prepare the syringes beforehand to avoid excessive gelation and needle clogging.

(4) 5–6-week-old female mice are recommended for the experiment.

(5) Inject slowly to avoid needle dislodgement due to high resistance of gelation

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