

# LIPID MAPS Solution Protocol

**Solution name:** Bone Marrow Derived Macrophage Growth Medium 2

**Solution name abbreviation:** BMDMGM2

**Protocol ID:**

**Version:** 02

**Volume:** 500 ml

**Components:**

Reagent	Source	Catalog or Protocol No.	F.W. or Stock Conc.	Quantity	Final Concentration
RPMI D-Glucose 2g/L No phenol red	Invitrogen	11835	1X	440 ml	
Fetal Bovine Serum (FBS)	Hyclone	SH30071.03 ANG19242	100%	50 ml	10%
Antibiotic Penicillin Streptomycin	Gibco	15140-122	100%	5 ml	1%
L-glutamine	Gibco	35050-061	200 mM	5 ml	2 mM
Recombinant Human M-CSF	Lipid Maps	PS0000003100	50 ug/ml	1:1000 Dilution in media/cells	50 ng/ml

**To heat-inactivate the serum:**

1. Thaw the 500 ml stock bottle of serum at 4°C.
2. Heat the serum at 56°C for 30 minutes.
3. Aliquot the serum in 50 ml tubes and store at 4°C until use.

**Solution Preparation:**

1. Remove 60 ml from the 500 ml RPMI reagent stock bottle.
2. Add 50 ml of heat-inactivated fetal calf serum.
3. Add 5 ml of Penicillin Streptomycin.
4. Add 5 ml of L-glutamine. Swirl to mix.
5. Warm the solution to 37°C before use.
6. Add rh M-CSF (PS0000003100) to media during plating and differentiation (PP00000004701) for a final concentration of 50 ng/ml. Rh M-CSF is a substitute for L-cell medium for differentiating BMDM.

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