

TC4-SOP 1-1m Immunize mice

Project Name:

MATERIALS:

•	Mouse x • Sterile syringes (Terumo, 27 GX1/2", 1 mL)		
	BALB/c Birth Date: / / Paraffin membrane (Parafilm)		
•	3-way stopcock (Nipro) PBS buffer (1X)		
•	Antigen:		
	 μg /μL, μL μg Powder Gel liquid, solvent 		
•	Adjuvant		
	Complete Freund's Adjuvant (CFA) 🗌 Incomplete Freund's Adjuvant (IFA)		
	□ other: □ None		

METHODS:

 \Box For first immunization, prepare antigen using 100 µg protein or peptide per animal to be immunized. For subsequent boosters, using 50 µg antigen. Add 1X PBS to 250 µL. (Antigen _____ μ L, add 1X PBS to 250 μ L) Add antigen into a sterile syringe using tips. Carefully clean the end of syringe without needle, connect syringe to a 3-way stopcock. Seal the connection part by using parafilm. \square Add a volume of CFA¹/IFA² equal to the antigen volume into another syringe using tips. Carefully clean the end of syringe, connect syringe to the 3-way stopcock. Seal the connection part by using parafilm. 1. Completely resuspend CFA to disperse the Mycobacterium tuberculosis bacilli. 2. CFA is for first booster, IFA is for subsequent booster. Turn the 3-way stopcock, **discharging antigen into adjuvant***. * Add one drop of adjuvant into the syringe plunger. Discharging back and forth half an hour until a thickened mixture results*. * A stable emulsion will not disperse when a drop of it is placed in water, or looks like the tooth paster. Transfer all of the adjuvant/antigen emulsion to one syringe. Attach a sterile 27G needle to the syring containing the emulsion. Inject emulsion intraperitoneally into the animal using $<500 \mu$ L/mouse. **Boost animal after 14 days and bleed to monitor the antibody titer.** * If cell fusion is planned for 3~7 days after boosting, immunize with antigen alone in 1X PBS. If a fusion is not immediately planned, boost the animal with antigen emulsified in IFA. Reference:

John E. C., Barbara E. B., David H. M., Ethan M.S., and Warren S. (eds.) 2009. Current Protocol in immunology. John Wiley and Sons. Inc.

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