

# ADJUVANT MM #3001

## For monoclonal antibody production

For highest fusion-yields in Mice. Particularly mild and simple to handle, just mix with antigen and inject. All components are non-toxic and fully biocompatible.

### Suggestion for Use

<b>Storage:</b>	4-8°C. Ready-made mixture should be stored frozen. Bring to room temperature prior to use.
<b>Withdrawal:</b>	Use a sterile plastic syringe, mix with antigen solution and shake.
<b>Dilution Rate:</b>	Standard rate is 1:1 with antigen solution (table row 2+3), but other ratios are no problem as long as the recommended volume of adjuvant is used and the maximum injection volume at each site not exceeded.
<b>Diluent:</b>	Use water as the diluent. If buffer is necessary, please check before, that the used antigen does not coagulate in the diluent/adjuvant emulsion with applied pH value.
<b>Route of application:</b>	Subcutaneous. Intraperitoneal application is possible but not recommended.
<b>No.of injection sites:</b>	For optimum effect, more sites are always better.
<b>Maximum injection volume per site:</b>	Recommendations are given by various Animal Protection Councils all over the world. - Leenaars, M. et al (1999) ATLA 27, 79-102. - Nicklas, W., Cußler, K., & Hartinger, J. T. (1998) TVT, Tierschutzaspekte bei der Immunisierung von Versuchstieren.
<b>Stability of Antigen-Adjuvant mix:</b>	No restriction, except antigen solution contains polyanionic compounds which could lead to precipitate.

### Schedule of Immunization

Day	0	14	21	28	29	30	31
Antigen [µg]	100	50	50	50	50	50	Fusion
Adjuvant MM [µl]	40	20	20	-	-	-	
Total Injection Vol. [µl]	100	50	50	50	50	50	

### Compatibility

In the host organism the colloidal particles are rapidly rinsed away to the lymphatic system where they perform their action and cannot cause granulomas. All components are proven to be orally and parenterally nontoxic. Generally subcutaneous application works just as well as i/m or i/p and is definitely better tolerated. GMDP has been found to be pyrogenic in doses over 10 µg/kg body mass.

### Active Ingredients

The effectivity of GERBU Adjuvant is based on the synergistic action of the muramyl glycopeptide and solid ultrafiltrable particles of slowly biodegradable lipids added in order to impart the positive electric charges beneficial for optimal efficiency. Equally important are the immunopotentiating, biocompatible emulsifiers and the carefully adjusted synergistic and stabilizing medium which surrounds the nanoparticles.

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