

Product Details

Summary

Product Name	MTiterFast™
Appearance	Clear, faintly bluish solution
Description	MTiterFast is a neutral, water-based adjuvant whose high-molecular-weight polymer contains hydrophobic domains that bind protein antigens (including carrier-conjugated peptides or small molecules) without disrupting conformation. Following injection, the complex allows slow antigen release for sustained immune stimulation. Excipients meet human-pharmaceutical standards; the formulation is non-toxic, non-immunogenic, and highly biocompatible with a low injection-site reactogenicity profile. Protein-free—does not induce anti-adjuvant antibodies. Use cases: mouse polyclonal production and hybridoma development; validated in WB, IHC, IP, IF, ELISA (sandwich/indirect), neutralization, etc.

Advantage

- Neutral pH, water-based; preserves antigen structure
- Controlled release in vivo; robust immunogenicity
- Low reactogenicity; excellent biocompatibility
- Protein-free; avoids anti-adjuvant antibodies
- Shorter cycles; reduced antigen usage and cost
- Optimized for mice

Performance track record: 1,704 BALB/c mice.

Storage 4–8 °C; do not freeze

Shelf life 24 months

Standard Operating Procedure (SOP)

Schedule	Day 0, 7, 14; collect serum Day 21. If titers are low, boost once on Day 21–22.
Antigen scope & dose	Proteins / inactivated pathogens / VLPs: 40–60 µg per mouse. Peptides / small molecules (carrier-conjugated): 80–120 µg per mouse.
Preparation	Adjust antigen to 100 µL with sterile saline or PBS, mix with 50 µL MTiterFast; inject promptly.
Route & volume	Total 150 µL per mouse; subcutaneous multi-site, intraperitoneal, or intramuscular. In-house: two SC (nuchal) + one IP split evenly.
Notes	Transient precipitate after mixing is normal—mix and inject without delay. Optimized for mice; other species may show reduced performance. Use care opening vial.

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