



ARMOR™ ADJUVANT OVERVIEW

ARMOR™ Adjuvant

Oil emulsion adjuvants are common in veterinary vaccines, with various types of oils used in different proprietary formulations. ARMOR™, is Medgene's water-in-oil-in-water (W/O/W) emulsion adjuvant. This type of adjuvant consists of water particles suspended inside oil particles, which are in turn suspended in an aqueous phase. The majority of antigen is located the two aqueous phases, but some antigen can also be found in the oil phase. Advantages of this W/O/W adjuvant include faster humoral responses, less viscosity which leads to easier injection, and reduced injection site reactions when compared to other oil-based adjuvants. Medgene prescription platform vaccines with Armor™ adjuvant are formulated as a 1 ml. dose in a single, ready to use bottle for use in swine 4 weeks of age or older.

- ARMOR™ is a unique, water-in-oil-in-water (W/O/W) emulsion adjuvant that is free of animal origin ingredients. It has a milky-white appearance and creates a smooth, uniform mixture when added to vaccine antigens.
- ARMOR™ homogenization processes and gentle shaking prior to vaccinating animals enhances immunogenicity and improves safety of the vaccine.
- ARMOR™ is composed of uniformly dispersed, micron-sized oil particles that ensure maximum stability and decreased viscosity of the emulsion. The small, uniform droplets also increase the surface area available for antigen binding, which reduces the quantity of oil required in the vaccine.
- ARMOR™ technology decreases undesirable side effects associated with many oil-based adjuvants but elicits rapid, strong immune responses in vaccinated animals.
- Oil-in-water emulsified adjuvants form a mobile antigen depot that targets immune effector cells. Immune response and vaccine performance are enhanced due to the slow-releasing depot and improved antigen presentation.
- ARMOR™ adjuvanted vaccines are stable at refrigerator temperatures.
- Vaccines formulated with ARMOR™ currently have 60-day slaughter withdrawal.

The selection of safe, flexible, and convenient adjuvants is just another way that Medgene works to provide practicing veterinarians with the best possible choice for Prescription Platform Vaccines.

For additional information, please visit www.medgenelabs.com or contact us at info@medgenelabs.com.

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