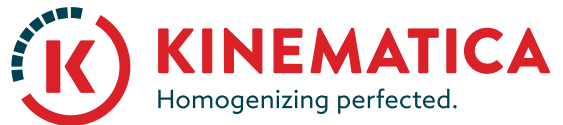


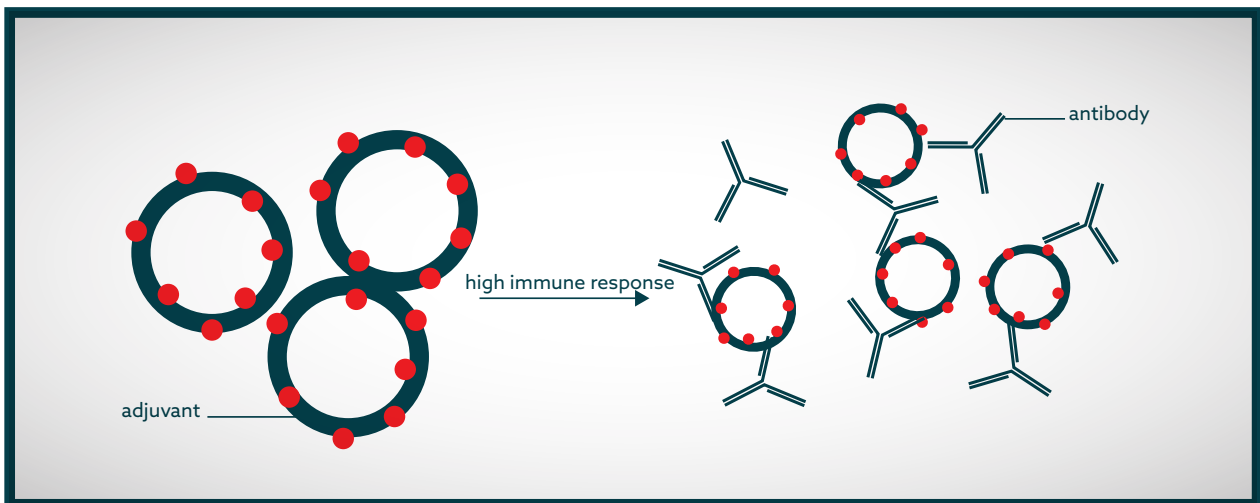
Process:
Subprocess:
Product Family:

STERILE PRODUCTION
VACCINES
POLYTRON®



PHARMA

Depot type adjuvant production.



THE APPLICATION SCOPE / PURPOSE

In times of corona virus leading the world's main topic, **vaccine development** is on everyone's lips. Vaccines are used to provoke an immune response of the body by the production of antibodies through antigens. **Adjuvant can be added to the vaccines for an improved immune response** for a boost of antibody production and thus, a reduced number of antigens is required. There are different types of adjuvants. Depot types of adjuvant act as depot for the antigen. It results in a longer exposure of the antigen to trigger a maximized immune response. Here, the adjuvants are based on emulsion, liposomes or microparticles, which act as a carrier for the antigen. The carrier efficiency is, amongst others, defined by the surface of the carrier. Therefore, the smaller the carrier, the better. Sub-micronized or nano-dispersed emulsions are desired.

Kinematica can provide equipment for dispersions down to nano-scale using technologies with highest dispersion efficiency for perfusion or batch production. **We have experience in the field of micro-encapsulation, liposome production and nano-emulsions for sterile vaccine applications.**

GET FULL VERSION

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🇨🇭 Swiss made dispersing solutions for you. Since 1962.