

ANIMAL HEALTH VETERINARY VACCINE



KEYWORDS:

- * Subunit vaccine
- * Nanoparticles
- * Toxoplasmosis
- * Mucosal route

* Intradermal route

* Sheep

YOUR CONTACT:

François-Xavier DENIMAL **Business Developer** Tel: +33 6.13.84.36.28 francois-xavier.denimal @sattnord.fr

DEVELOPMENT OF A VACCINE

Design of a subunit vaccine administered by mucosal or intradermal route and using polysaccharidic nanoparticles with lipidic heart.

The nanoparticles are able to deliver the antigens to the immune cells and induce a strong cellular response protective against toxoplasmosis infection.





BENEFITS:

- Injection by mucosal route, natural route of infection, or intradermal route.
- Raises a protective cellular response without stimulating a strong humoral response
- Protects against abortion
- Protects cyst formation
- Long shelf life
- Stable
- Able to support cold chain rupture
- Multidose vaccine

APPLICATIONS:

- Ovine toxoplasmosis vaccination
- Veterinary vaccines against neosporosis, chlamydiosis...

SINTELLECTUAL PROPERTY:

- Patent EP12370002.3

A pharmaceutical composition comprising a solid nanoparticle and at least an antigen for the treatment against intracellular pathogenic agent.

- PCT /Fr 13/000 239



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DEVELOPMENT STATUS: Proof of concept in mice:

- Characterization and formulation of the association nanoparticles /extract of antigens.
- Vaccination and challenge by mucosal route on unanesthetized mouses .
- 100% survival rate and reduction of 70% in the number of brain cysts

Vaccine clinical trial on pregnant ewes and challenge with toxoplasma gondii on going.

- Induction of specific and protective humoral and cell responses.







SATT Nord 2, rue du Priez - 59000 LILLE - France +33 3 28 36 04 68 - lille@sattnord.fr

TO TREAT OVINE TOXOPLASMOSIS