Deltamune, with a history dating back to 1977, is a Gauteng based South African company focusing on veterinary public health. Inactivated vaccines focusing on South African strains have been produced since 1980. The development of ELISA tests for various poultry diseases commenced in 1985. At Deltamune we support our customers to achieve their production goals, backed by state of the art vaccines research and development, manufacture of biological products. Supported by isoISO 17025 (SANAS V.0007) accredited and Department of Agriculture, Forestry and Fisheries (DAFF) approved test laboratory.

### Product Range and Capabilities

<table>
<thead>
<tr>
<th>Disease</th>
<th>Antigenic Group</th>
<th>AVIVAC® AI</th>
<th>AVIVAC® AI COR/EDS</th>
<th>AVIVAC® CORYZA</th>
<th>AVIVAC® ND</th>
<th>AVIVAC® SE</th>
<th>STRUVAC ND PLUS</th>
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**Registered Products**

- AVIVAC® AI
- AVIVAC® AI COR/EDS
- AVIVAC® CORYZA
- AVIVAC® ND
- AVIVAC® SE
- STRUVAC ND PLUS
- Autogenous vaccine solutions provided through veterinarians include:

**Vaccine support products**

Contact us for solutions to your vaccination and laboratory needs

Email: info@deltamune.co.za Website: www.deltamune.co.za

Registration holder: DELTAMUNE (PTY) LTD Reg 1994/005956/07

AVIVAC® ND is distributed by: Immun-O-Vet Services CC (Reg. No. 1988/025418/23)

Telephone: +27 (0)11 699-6240 Fax: +27 (0)11 462 0869 Website: www.immunovet.co.za Email: info@immunovet.co.za

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**AVIVAC® ND**

Reg. No. G 3670 Act 36/1947

The South African developed ND vaccine with a high viral antigen load

An oil-emulsion of inactivated Newcastle disease virus (Lentogenic La Sota strain) containing at least 1 x 10^9 EID₅₀ per dose.
**What is Newcastle Disease?**

Newcastle disease is a highly contagious disease characterised by respiratory distress, greenish diarrhoea, occasionally nervous symptoms and high mortality in susceptible fowls. In layer or broiler breeder fowls severe egg production drops may occur due to velogenic Newcastle disease infection without mortality despite immunisation. Transmission can be airborne or introduced on contaminated shoes, clothes, feed deliverers, visitors, equipment and wild birds. Clinical signs are sudden in onset and spread rapidly through the flock.

In addition to effective immunisation with a suitable combination of vaccines, strict biosecurity should be applied at all times.

Development of this vaccine was done according to GLP guidelines, and animal studies performed following GCP guidelines. Manufacturing of the vaccine is conducted in a facility that adheres to European GMP guidelines, with virus propagated in specific pathogen free (SPF) embryonated chicken eggs. Sterility testing is performed in the DeltaMune ISO 17025 accredited laboratory (SANAS V.0007: VAC-QCD-ME-019 method).

**Advantages of using AVIVAC® ND**

- **High virus titre** increases immune response against ND
- **Oil adjuvated vaccine** ensures high immune response and long duration of immunity
- **Maximum safety and specificity** with viral antigen produced in SPF eggs
- **In process sterility testing** of antigen and final product
- **World-class technical and laboratory support** for the product provided by DeltaMune

AVIVAC® ND is indicated for preventive immunisation of healthy, primed fowls against Newcastle disease. The immunity induced, should reach a maximum 3 weeks after the administration of the vaccine and continue to give protection for the remainder of the production lifecycle.

Recommended dosage

A dose of 0.5 ml should be injected intramuscularly into the breast muscle of replacement pullets or breeding fowls older than 8 weeks of age.