



#221-18

Anti-species secondary antibodies conjugated to peroxidase for diagnostic purposes

Conjugated nanobodies are critical inputs used in diagnostic Kits, ELISA, Western Blot and Immunohistochemistry assays, in R+D and public health laboratories. These secondary antibodies are bound to an enzyme that produces a colorimetric reaction allowing specific detection of antibodies against a specific pathogen.

INCUINTA has developed specific VHH monoclonal antibodies conjugated to soy peroxidase enzyme to detect antibodies in birds, humans and mice. These molecules are also in the development phase for anti-bovine, equine, bubaline and ovine IgG antibodies.

Contrarily to the polyclonal conjugates employed routinely, the conjugates produced in this laboratory feature the following characteristics:

ADVANTAGES:

- Better specificity
- Lower signal background
- Industrial scale production feasibility
- Higher reproducibility among production lots

TECHNOLOGY READINESS LEVEL

This technology was the basis to develop the first Human Rotavirus diagnostic kit, named ROTADIAL, which was validated by Malbrán Institute and is in the approval phase by ANMAT-ANLIS.

INTELLECTUAL PROPERTY RIGHTS STATUS:

This recombinant VHH structure qualifies for invention patent protection.

DNA de Vinculación Tecnológica y Relaciones Institucionales - National Coordination Office for Technological Cooperation and Institutional Relations, INTA . Intellectual Property Department- Technological Antenna
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