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Title: Evaluation of 'Recombinant secretary antigens' based 'Cocktail ELISA' for the diagnosis of Johne's disease and to differentiate non-infected, infected and vaccinated goats in combination with indigenous ELISA test

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**Evaluation of ‘Recombinant secretary antigens’ based ‘Cocktail ELISA’ for the diagnosis of Johne's disease and to differentiate non-infected, infected and vaccinated goats in combination with indigenous ELISA test**

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**Highlights**

- A new cocktail ELISA was developed using six specific recombinant secretary proteins (RSP) or culture filtrate proteins (MAP 1693c, MAP 2168c, MAP Mod D, MAP 85c, MAP Pep AN and MAP Pep AC) for the diagnosis of Johne's disease in goats.
- Optimized RSPs based ‘cocktail\_ELISA’ when used along with 'indigenous\_ELISA' was successful in differentiating non-infected, infected and vaccinated goats.
- Cocktail\_ELISA will facilitate the implementation of the Johne's disease control program in the goat population of the country using 'Indigenous JD vaccine'.

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