



भा.कृ.अनु.प.-राष्ट्रीय मांस अनुसंधान संस्थान

(पूर्व भा.कृ.अनु.प.-राष्ट्रीय मांस अनुसंधान केंद्र)

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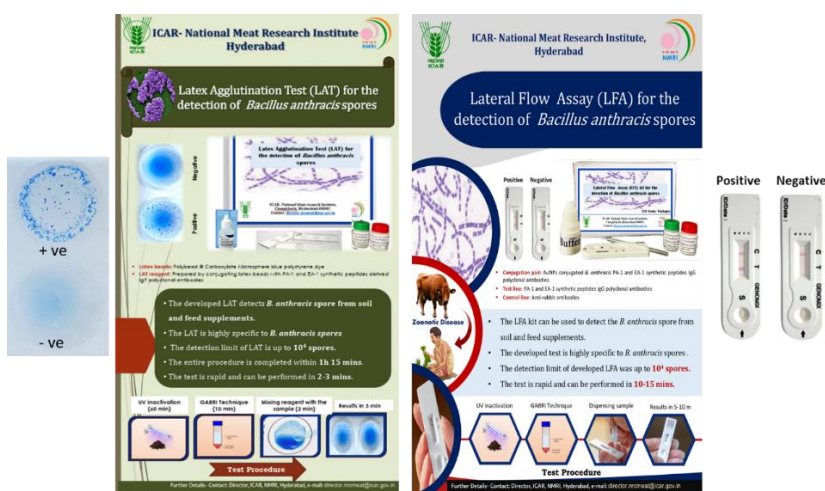
Latex agglutination test and Lateral Flow Assay for the detection of *B. anthracis* spores from soil and feed supplement

Inventor: Dr. Deepak B. Rawool, Dr. S. B. Barbuddhe

Brief Description: PA-1 and EA-1 peptide-oriented IgY/IgG antibody-based LAT/LFA have excellent specificity (highly specific to *B. anthracis* spores and does not cross react with other *Bacillus* spp. viz., *B. subtilis*, *B. cereus*, *B. mycodies*, *B. thurigiensis*, *B. lichneformis*) and a good sensitivity (detection limit of LAT: 10^5 spores/g of soil/animal feed supplements while LFA can detect 10^3 spores/g of soil/animal feed supplements) when compared with WOAH-recommended PCR assay (10^3 spores/g).

- The developed LAT/ LFA test is meant for rapid and onsite detection of *B. anthracis* spores. Hence the requirement for higher infrastructure, sophisticated types of equipment, trained manpower, and most importantly time can be saved for the detection of *B. anthracis* spores.
- The problems such as cross-reactivity and low specificity available with earlier diagnostic antigens have been solved; as earlier diagnostic antigens (proteins) employed were not stable, however, synthetic peptides identified in this innovation are highly stable, cost-effective, scalable, and reproducible with utmost purity.

Cost of the technology: Rs 10.00 Lakh Plus GST



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