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(57) Abstract :

A Treponema pallidum triplet antigen construct is disclosed which includes three Treponema pallidum antigens (TP15 TP17 and TP47) as well as a ten amino acid leader sequence (tag 261) and human copper zinc superoxide dismutase (hSOD). This construct is optimized for in vitro diagnosis of syphilis infection. Plasmids containing DNA encoding the triplet antigen host cells production methods detection methods and kits are also disclosed.

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