

The invention relates to molecular biology, genetic engineering and can be used in biotechnological synthesis of the protein of Trepanema Pallidum envelope and in medicine for construction of test systems suitable for revealing of antibodies to Trepanema Pallidum in patient blood sera.

The plasmid expressing vector pKS 103 has DNA sequence responsible for the expression in E.coli bacteris of fused protein of Trepaneroa Pallidum envelope. It encodes protein sequence, responsible for the expression in E.coli bacteria of fused protein of Trepanema Pallidum envelope of the general formula (N-beta-Cal-pTr-COOH), molecular weight of 106 kD, producing the strain of E.coli Tp 15 bacteria under control of phague lambda promotor.