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Identification of a new diagnostic antigen for glanders using immunoproteome analysis

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Highlights

- Proteomic approach with immunoblotting with equine sera was used to identify new diagnostic targets for glanders
- At least 12 protein antigens e.g. GroEL, EF-TU, EF-TS, arginine deiminase, malate dehydrogenase with diagnostic potential were identified
- GroEL, the most immunodominant protein was generated as recombinant protein and was evaluated by ELISA with glanders positive and negative serum samples
- The developed ELISA had a sensitivity and specificity of 96% and 98.7% respectively

Abstract

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