

# Bioassayplus Inc.

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## Certificate of Analysis

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** T.cruzi-B13

**Description:** Chagas disease is an infectious disease caused by a protozoan parasite (*Trypanosoma cruzi*). About 6–7 million people worldwide are estimated to be infected with *T. cruzi*, leading to approximately 12 000 deaths every year. Chagas disease is found mainly in endemic areas of 21 continental Latin American countries, where transmission is largely related to the vector presence. Today, approximately 75 million people are considered at risk of infection.

Up to a third of people with chronic infection develop cardiac alterations and 1 in 10 develop digestive, neurological or mixed alterations which may require specific treatment.

T.cruzi-B13 is Cytoplasmic/surface antigen, an immunodominant recombinant antigen which encodes part of the tandemly repeated domain of the *T. cruzi* 140/116kDa protein located on the surface of infective trypomastigotes. B13 protein is recognized by IgG serum antibodies from 97% of *T. cruzi* infected individuals 2 Journal of Parasitology Research in Latin America, bearing both forms of chronic Chagas' disease: chronic Chagas' diseased cardiomyopathy (CCC) and the asymptomatic/indeterminate form.

Recombinant T.cruzi-B13 contains 227 amino acids with C terminal his tag, the protein migrates on SDS-PAGE with 30kDa in size and over 95% purity.

**Source:** *E. coli*

**Format:** Purified, Liquid

**Purification:** >95% pure (10% SDS-PAGE, Coomassie blue stain). Proprietary chromatographic technique

**Concentration:** 1.0 mg/ml ( Lot: 112024)

**Buffer:** PBS, 25mM K<sub>2</sub>CO<sub>3</sub>

**Applications:** Immunoassay

**Storage:** Upon receipt, store at -20°C. Avoid multiple freeze/thaw cycles.

Image of SDS-PAGE will come soon.