

## Serological determination of *Trypanosoma cruzi* in northern region of the State of Mexico

### Parasitology Research

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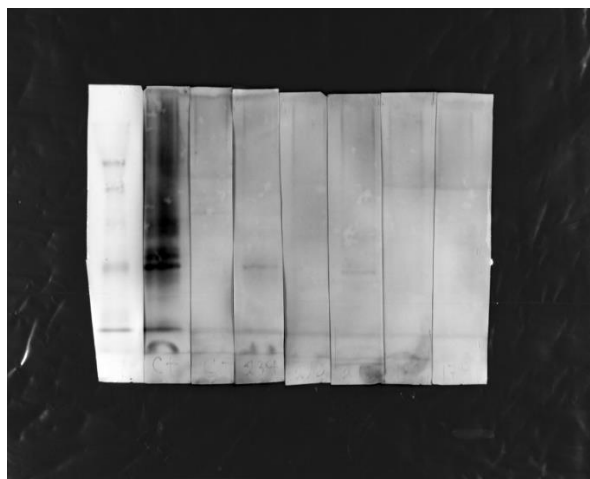
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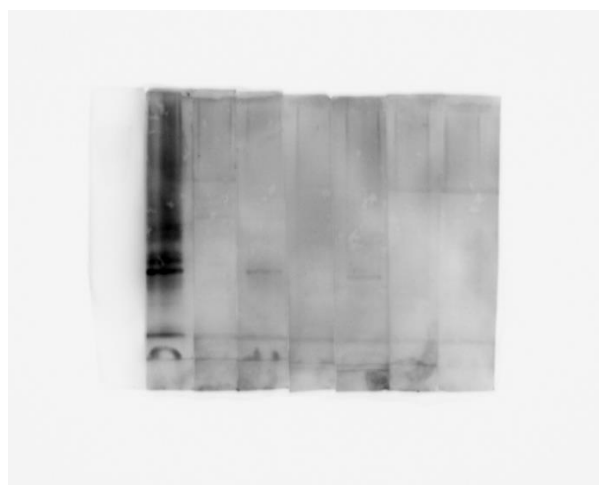
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**Step-by-step visualization process of the bands observed in the Western Blots using the Image Lab  
Software V6.1 (BIO-RAD®)**



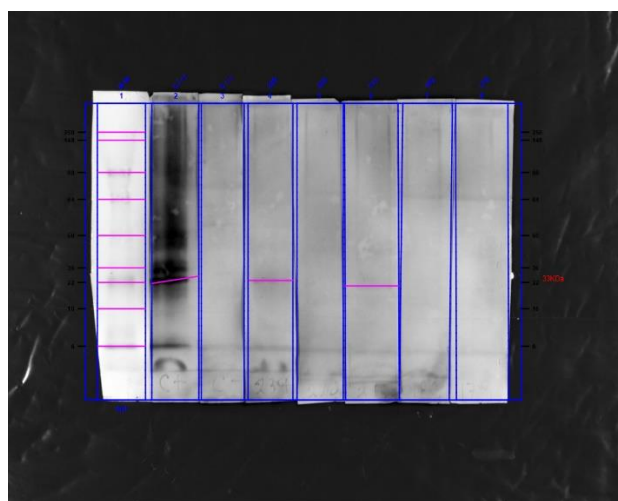
**Fig. S1A. MEXLAB. MERGE.** The figure displays a merged image, combining the original ChemiDoc files of the lateral flow test samples and the molecular weight marker. In this image, the membranes, serum samples, and molecular weight marker are visible. The image was generated using the merge function of the ChemiDoc Imaging System software (BIO-RAD®).



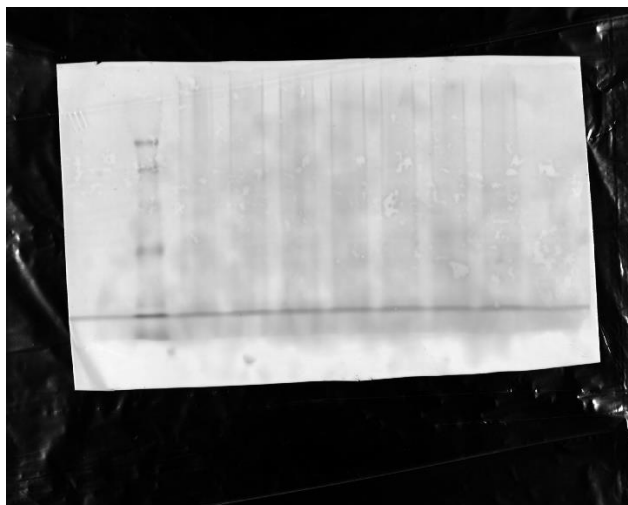
**Fig. S1B. MEXLAB. SAMPLES.** The figure presents the original ChemiDoc image of the lateral flow test samples, displaying only the membranes corresponding to the positive control, negative control, and the reactive samples: 239-MZAA, 220-RVMR, 211-CVMA, 182-HSG, and 179-REA. This image was captured using the chemiluminescence function of the ChemiDoc system.



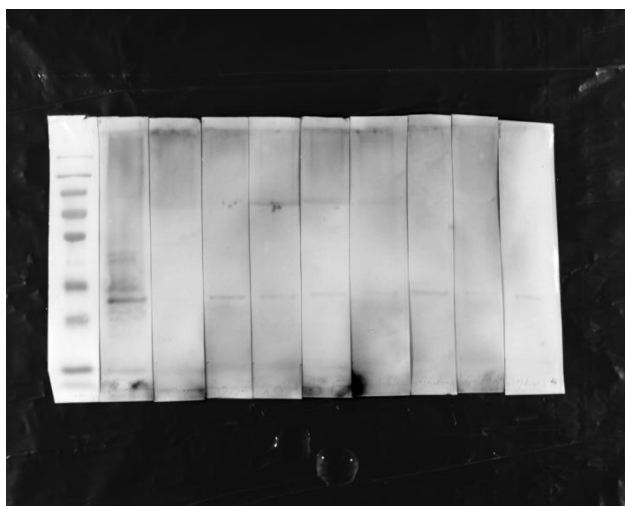
**Fig. S1C. MEXLAB. MOLECULAR WEIGHT.** The figure shows the original ChemiDoc image of the molecular weight marker (SeeBlue® Plus2 Prestained Standard, Invitrogen™) used alongside the lateral flow test samples. This image was captured using the colorimetric function of the ChemiDoc system.



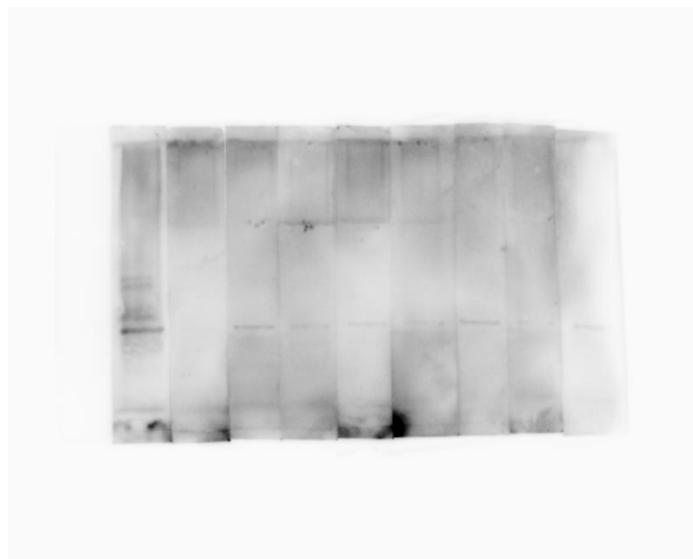
**Fig. S1D. MEXLAB. MERGE ANALYSIS.** The figure displays the analysis of the merged image using the ChemiDoc Imaging System software (BIO-RAD®). Pink highlights indicate the bands detected on the membranes of the serum samples. Bands corresponding to the molecular weight marker are also visible.



**Fig. S1E. MEXLAB. PONCEAU.** The figure presents the original ChemiDoc image of the Ponceau stain used to detect protein bands on nitrocellulose membranes after the transfer step. This image was captured using the colorimetric function of the ChemiDoc system



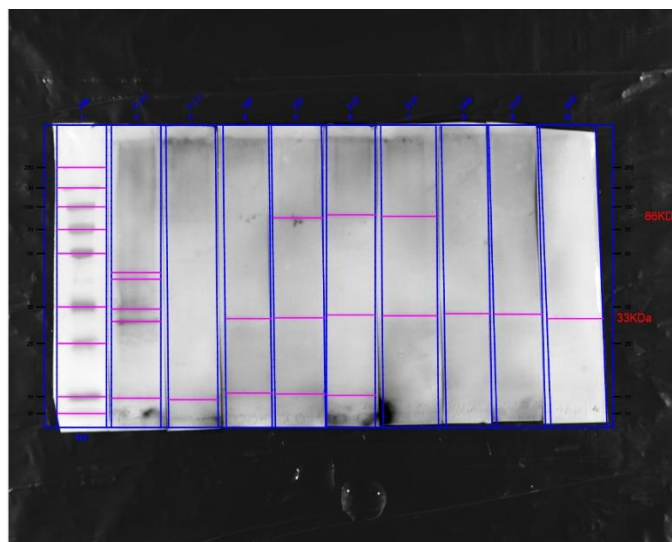
**Fig. S2A. HPX. MERGE.** The figure shows a merged image combining the original ChemiDoc files from the ELISA-HPX test and the molecular weight marker. The membranes, along with the serum samples and molecular weight marker, are visible in the image. This merged image was generated using the ChemiDoc Imaging System software (BIO-RAD®).



**Fig. S2B. HPX. SAMPLES.** The figure presents the original ChemiDoc image from the ELISA-HPX test, displaying membranes corresponding to the positive control, negative control, and reactive samples: 007-RMA, 201-VPEA, 216-EJD, 219-RVC, and 244-OHGA. This image was captured using the chemiluminescence function of the ChemiDoc system.



**Fig. S2C. HPX. MOLECULAR WEIGHT.** The figure shows the original ChemiDoc image of the molecular weight marker (Precision Plus Protein Dual Color Standards, Bio-Rad®) used alongside the ELISA-HPX test samples. This image was captured using the colorimetric function of the ChemiDoc system.



**Fig. S2D. HPX. MERGE ANALYSIS.** The figure displays the analysis performed on the merged image using the ChemiDoc Imaging System software (BIO-RAD®). Pink highlights indicate the bands detected on the membranes of the serum samples, and the bands corresponding to the molecular weight marker are also visible



**Fig. S2E. HPX. PONCEAU.** The figure shows the original ChemiDoc image of the Ponceau stain used to detect protein bands on the nitrocellulose membranes following the transfer step for the samples in the ELISA-HPX test. This image was captured using the colorimetric function of the ChemiDoc system.