

electrophoresis, protein A showed molecular weight of 57.75-66.15 KDa which was a non-significant difference from that purified from BHI.

Purified protein A was conjugated to gold particles and used for clinical application. The result showed that prot.A-Au₁₆ and prot.A-Au₄₁ had efficiency to detect human IgG down to 9 ng. This home-made protein A-gold conjugated was further used for immunogold staining to detect antinuclear antibodies. From 57 serum samples, it was shown that the home made protein A-gold (prot. A-Au₁₆ and prot.A-Au₄₁) gave compatible results as those of commercial protein A-gold (p<0.005). We also found that protein A-gold, could differentiate the 4 patterns of antinuclear antibodies as good as those of immunofluorescence assay using anti IgG-FITC.

Both Ami-Ami L and Ami-Ami G were also tested for growth supporting to 52 species of medical important organisms. The results showed that diluted wastes could support growth for 42 species of the tested organisms. No growth support was detected to *Neisseria spp.*, *Gardnerella vaginalis*, *Vibrio alginolyticus*, and *Hemophilus spp.* This probably due to lacking specific growth supporting factors. Ami-Ami L and Ami-Ami G provided moderate growth for gram negative bacilli and gram positive cocci. While Ami-Ami L broth (1:8 dilution) provided excellent growth support for *Pseudomonas aeruginosa* and *Bacillus subtilis*. At 1:16 dilution, Ami-Ami G provided growth supportive to *P.aeruginosa* better than trypticase soy broth. The Ami-Ami G and Ami-Ami L media could also support growth to *H.influenzae* if hemin and NAD were provided to the cultivation.