**Abstract**

This study involves the use of bull myocardium and egg yolk as a source for obtaining cardiolipin and lecithin respectively, which are considered as elementary materials in the preparation of the diagnostic kit of the syphilis disease. The study has been conducted in the period from October 2001 to October 2002.

The result have revealed that there is high active antigencity of a pure antigen from the extracts of the bull myocardium and egg yolk towards the serum of syphilitic patients. The methods of purification has included the use of thin layer chromatography, gas liquid chromatography and Iodin number measure. The cardiolipin has shown a sgle spot whose value of relative mobility is 0.92 which includes the following fatty acids: palmitic 8.6%, stearic 13.8% oleic 10.2% linoleic 52.4% linolenic 4.8% and archidonhc 9.9% and the iodine number eas 123. Concerning lecithin, it has shown a single spot which is identical with the standard lecithin imported from BDH company. Moreover, the value of relative mobility is also similar to that of standards lecithin 0.6 and include the following fatty acid: palmitic 34.8%, stearic 19.4%, oleic 32.7% and linoleic 12.9% and the iodine number was 60 which is equal to the iodine number of standard lecithine also. As for the standard lecithin it includes the falling fatty acids: palmitic 39.8%, stearic 10.5%.
The finding have also shown the effectiveness of the antigen prepared in this study with both serums of the syphilitic patients and the standard serum as well as comparing the effectiveness of that antigen prepared in this study with the antigen imported from biokit Spanish company.

The antigen prepared in this study has been evaluated by the directorate of teaching laboratories at the hospital of medical saddam city. The result of this evaluation is that the antigen prepared in this study is good and obtained good result with both syphilitic serums and standard serums. In addition the anti-cardiolipin antibodies prepared in this study have proved effectiveness towards the antigen prepared in this study and towards the antigen imported from biokit Spanish company.