Appendix (1)

Sudan University of Science and Technology

Collage of Graduate Studies

Microbiology Department

Questionnaire

Title: Serodetection of anti *Helicobacter pylori* Antibodies (IgG, IgA) Among Students Suffering from Gastritis in Different Universities in Khartoum State

By: saf a Ahmed

**Supervisor:** Prof. Yousif Fadllala

Data: ……………………………………

Name: ……………………………………

Sex:

Male □ female □

Age: ………………………………………
Have any gastrointestinal problem

Yes  □□□□     No  □□□□

Symptoms and complains:

1- gastritis  □□□□
2- pain in the upper abdominal  □□□□
3- nausea or vomiting  □□□□

Previous diagnosis of Helicobacter pylori infection:

Yes  □□□□     No  □□□□

If yes the result is

Positive  □□□□     negative  □□□□

Any one at home has these symptoms?

Yes  □□□□     No  □□□□

Did you drinking coffee?

Yes  □□□□     No  □□□□

Did you drinking alcohol?

Yes  □□□□     No  □□□□

Did you smoking?

Yes  □□□□     No  □□□□
Appendix (2)

ELISA Sample Dilution

Patient samples are Diluted 1:101 in sample buffer

Serum……………………10 μl

Sample buffer………………1.0 ml

ELISA Buffer

1. Corbonate bicarbonat e buffer (Coating buffer)
   PH:6.9

   Na CO₃ anhydrous ………………… 1.59 gm

   NaHCO₃ ................................. 2.93 gm

   Dissolve in liter D.W Adjust PH to by NaOH or HCL.

2. Phsphat buffer saline (PBS) / Teen 20 (washing
   buffer) PH7.4

   NaCl …………………………… 8 gm

   Na₂HPO₄ ............................... 2.9 gm
KH₂PO₄ ....................... 0.2 gm
KCl ........................... 0.2 gm

Dissolve in liter distilled water than add 0.01 V/V polyoxy ethylene sorbitol monourate (Teen-20). Adjust PH by NaOH or HCl.

3. H₂SO₄ (Stopping buffer):

20 % H₂SO₄

20 ml ......................... H₂SO₄

80 ml ......................... D.W