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: safa Ahmed | |
|-----------------------------------|--|
| Supervisor: Prof. Yousif Fadllala | |
| Data: | |
| Name: | |
| Sex: | |
| Male female | |
| Age: | |

Have any gastrointestinal problem No Yes **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? No Yes Did you drinking alcohol? Yes No Did you smoking? No Yes

| Appendix | (2) | |
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ELISA Sample Dilution

| Patient samples are Diluted 1:101 in sample buffer |
|---|
| Serum10 μl |
| Sample buffer1.0 ml |
| ELISA Buffer |
| 1. Corbonate bicorbonate buffer (Coating buffer) PH:6.9 |
| Na CO ₃ anhydrous 1.59 gm |
| NaHCO ₃ 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 |
| Na ₂ HPO ₄ 2.9 gm |

| KH ₂ PO ₄ 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. H ₂ SO ₄ (Stopping buffer): |
| 20 % H ₂ SO ₄ |
| 20 ml H ₂ SO ₄ |
| 80 ml D.W |