



وحدة المعامل والاجهزة العلمية

المعمل المركزي بكلية الطب البيطري، جامعة بنها


Central Lab



مدير المعمل : د. عبدالفتاح منجد

1- Real-time PCR

Equipment	Real-time PCR
Manufacturer	U.S.A
Model	Applied biosystems 7500 fast
Functions	<p>Research Uses</p> <p>Diagnosis of infectious diseases</p> <p>Diagnosis of genetic diseases</p> <p>Cancer Detection</p> <p>Improve prognosis and monitor response to therapy</p> <p>Microbial uses</p> <p>Help in the field of food safety, food spoilage and fermentation</p> <p>Microbial risk assessment of water quality</p>



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Central laboratory (CL), Faculty of Veterinary Medicine, Benha University, Egypt

Tel: (+2)0132463073-0132461411 FAX: (+2)01324630740-0132460640



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2- 3500 Genetic Analyzer (sequencer)

Equipment	3500 Genetic Analyzer
Manufacturer	U.S.A
Model	3500 Genetic Analyzer (Applied biosystems)
Functions	<p>Identification of the order of nucleotides on a piece of DNA and finding different kinds of mutations such as single nucleotide polymorphism (SNP) and insertion/Deletion (Indel) which might cause genetic disorder</p> <p>Identification of DNA fragment length polymorphism (microsatellites)</p>



المعمل المركزي بكلية الطب البيطري-جامعة بنها-مصر: 0132461411-0132463073 (+2)، فاكس: 0132463074-0132466040 (+2)

Central laboratory (CL), Faculty of Veterinary Medicine, Benha University, Egypt

Tel: (+2)0132463073-0132461411 FAX: (+2)01324630740-0132460640




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3- Thermocycler (Biorad)

Equipment	Thermocycler
Manufacturer	U.S.A
Model	Thermocycler (Biorad)
Functions	<ul style="list-style-type: none">- Amplification, Detection and identification of nucleic acid.- Quantified the virus, and help in gene expression.- PCR allows rapid production of short pieces of DNA, even when nothing more than the sequence of the two primers is known. 

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4 - SpectroStar Nano Drop

Equipment	SpectroStar Nano Drop
Manufacturer	Germany
Model	BMG LABTECH SpectroStar Nano Drop
Functions	<ul style="list-style-type: none">- Measures nucleic acid (DNA double or single strand and RNA) concentration and its purity .- Measures purified protein concentration. 

5 - Gel documentation (Biorad)

Equipment	Gel documentation (Biorad)
Manufacturer	USA
Model	Gel documentation (Biorad)
Functions	<ul style="list-style-type: none">- Photography of stained gels- Printout of photographic data- Saving of photographic data 

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6 - Mili-Q Water

Equipment	Mili-Q Water
Manufacturer	USA
Model	Merck Milli-Q Integral water purification system
Functions	<p>-Produces pure and ultrapure water directly from tap water which enter in molecular biology</p> <p>- Produce D.W and double D.W which enter in microbiology and biochemistry works.</p>



7- Flowcytometry

Equipment	Flowcytometry
Manufacturer	USA
Model	BD Flowcytometry
Functions	<p>Cell state</p> <ul style="list-style-type: none">- Immunophenotyping- Cell cycle- Apoptosis- Cell proliferation <p>Cell function</p> <ul style="list-style-type: none">- Cell activation- Cytokine secretion

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	<ul style="list-style-type: none">- Activation of signaling pathway- Level of intracellular reactive oxygen species <p>Microbiology</p> <ul style="list-style-type: none">- Dead/live Discrimination- Absolute counting 
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8 - ELISA

Equipment	ELISA reader/Washer
Manufacturer	USA
Model	Stat Fax 2100 Microplate ELISA Reader
Functions	<p>Immunology</p> <ul style="list-style-type: none">- Determination of serum antibody concentration in a virus test- Monoclonal antibody screening- Vaccine development <p>Diagnosis of Diseases</p> <ul style="list-style-type: none">- Infectious Diseases, Cancer, Congenital Infections, pregnancy tests <p>Food industry</p> <ul style="list-style-type: none">- Detecting potential food allergens such as milk, peanuts, walnuts, almonds and eggs <p>Toxicology</p> <ul style="list-style-type: none">- Studying the adverse effects of chemicals compounds on the living organisms

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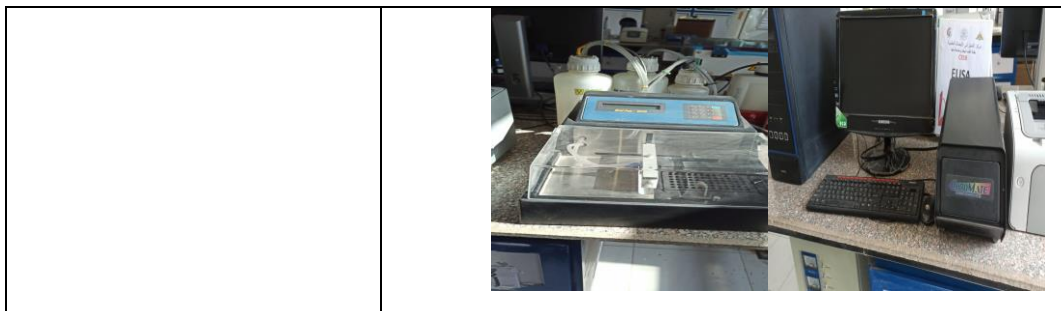


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9 - HPLC

Equipment	HPLC
Manufacturer	USA
Functions	<p>It used for purification and identification of compounds such as:</p> <ul style="list-style-type: none">- Vitamins- Sugars- Hazardous organic substances as insecticides, pesticides ... etc- Organic acids- Food additives- Drugs, antibiotics ... etc- Biogenic substances as lipids, amines ... etc



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10 - Immunohistochemistry (IHC)

Equipment	Immunohistochemistry
Manufacturer	USA
Model	Merck Milli-Q Integral water purification system
Functions	For detection of: Marker of Cancer Prediction of Response to Therapy Infections Apoptosis



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Central laboratory (CL), Faculty of Veterinary Medicine, Benha University, Egypt

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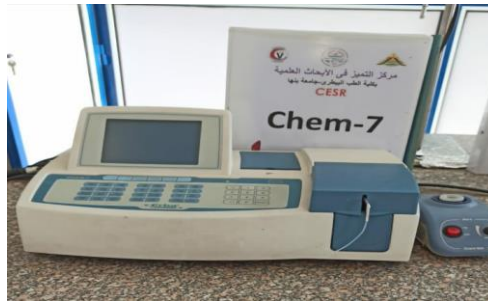
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11- Chem7

Equipment	Chem7
Manufacturer	Germany
Model	Erba Chem7
Functions	<p>Biochemical testes (Enzymes)</p> <ul style="list-style-type: none">- ALP, AMYL, CHE, CKMB, CPK, GGT, GOT/AST, GPT/ALT, LAP, LDH, LIP <p>Biochemical tests (General Chemistry)</p> <ul style="list-style-type: none">- BUN, Ca, CRE, DBIL, GLU, HDL-C, IP, Mg, NH3, TBIL, TCHO, TCO2, TG, TP, UA <p>Biochemical tests (Electrolytes)</p> <ul style="list-style-type: none">- Na, K, Cl <p>Immunological test</p> <ul style="list-style-type: none">- CRP



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Central laboratory (CL), Faculty of Veterinary Medicine, Benha University, Egypt

Tel: (+2)0132463073-0132461411 FAX: (+2)01324630740-0132460640