

Features

- 1). Humanity design, superior performance and high safety.
 - 2). It can filter out various impurities different from sperm to ensure the accuracy of examination.
 - 3). No damage examination sample, not only ensure sperm natural movement state but also the monolayer sampling.
 - 4). Store all the data, dynamic and static images of patients' sperm examination in digital way for patients with all the data sperm check and dynamic and static images stored in digital way.
- It can undertake various query, modify, statistics and print inspection report; and it is ready for networking all the time for resources sharing
- 5). Advanced morphology analysis software, clear color locus diagram
 - 6). It can be connected with the PACS to store and transfer the data, sharing the patient's record sources.



**Semen Quality Analyzer
Model: 3703**



منتج ذكي ذو تكنولوجيا فائقة مع أحدث التقنيات لتحليل ومعالجة الصور بواسطة الكمبيوتر وتكنولوجيا الذكاء الاصطناعي المتطورة المستخدمة في الطب التناسلي الحديث. له القابلية على التعرف الآلي وتتبع مسار الحيوانات المنوية التلقائي، والتي تجعلها قادرة على السرعة والتلقائية الكاملة لاجراء تحاليل متعددة المتغيرات تتفق مع المعايير الدولية لمنظمة الصحة العالمية. وهذا الجهاز يعطي تحليل كمي شامل من نشاط الحيوانات المنوية وخصائص ثابتة وينطبق على اختبار السائل المنوي السريري وذلك لتوفير أساس علمي مهم للتفتيش على خصوبة الرجال.

Examination Items

- 1). Sperm density, Sperm activity rate, Sperm trajectory, Sperm motility distribution
- 2). Average curvilinear motion speed total sperm of curvilinear motion Total motile sperm of curve motion Motility rate of curvilinear motion;
- 3). Average linear movement speed total sperm of linear motion Total motile sperm of linear motion Motility rate of linear motion;
- 4). Average path speed total sperm of average path Total sperm of mean motion Mean motion sperm motility rate.
- 5). Sperm movement speed classification: grade a rapid forward motility rate, grade b slow forward motility rate, grade c non-forward movement rate, grade d extremely slow or immobility rate
- 6). Sperm side swing value of sperm swing Sperm whipped frequency linear motion rate Total sperm;
- 7). Linear speed Sperm average moving angle linear motion sperm

Technical Parameters

- 1) Maximum of the tested sperms: 1000
- 2) Range of test speed: 0-180 μ m/s
- 3) Number of image collection: unlimited (frame)
- 4) Grain diameter resolution (μ m): adjustable
- 5) Analysis time: 1-5 seconds or longer
- 6) Group number of collected images: unlimited
- 7) Microscope objective lens: 10x.20x.25x.40x
- 8) Displayed content of sperm test system is no less than: 1) distribution curve of static sperms, 2) the features data of semen and statistical data from analysis of all the main functions, 3) sperm dynamic trajectory curve, 4) display various sperms motion speed and energy is arrhythmic map of sperms, 5) case information for management such as patients' name
- 9) Output content from sperms test system is no less than: 1) the main technical data of sperms, 2) sperm dynamic trajectory curve, 3) analysis and determinant histogram 4) case information for management such as patients' name

Beirut Dignostics Laboratory

Semen Analysis Report

Name: Ahmed Abdulgafoor Age: 33Year(s) In No. 37 Test No. 1

Apply by: Dr.Mustafa Diagnosis Very good
physico-chemical examination

appearance: milk white Liquefaction statu Completely liquefacti Volume: 2.0 ml

Viscosity: normal pH: 7.4 Liquefaction time: 30 minute

microscopic dynamics examination

Total number	67
density	52.4 10 ⁶ /ml
Active sperm	36
Active sperm	28.1 10 ⁶ /ml
Motility	53.8 %
Class A(fast)	43.3 %
Class B(middle)	7.5 %
Class C(slowly)	3.0 %
Class D(slowly or not move)	46.2 %
percent of a+b	50.8 %
density of a+b	26.6 10 ⁶ /ml
Velocity of active path(VAP)	µm/s
Velocity of curved line(VCI)	48.7 µm/s
Velocity of straight line(VSI)	24.0 µm/s
Average moving	69.87 degree
Sperm number in rectilinear mov	12
Sperm density in rectilinear mo	9.4 10 ⁶ /ml
Motility in rectilinear movement	17.9 %
Linearity(LIN)	49.1 %
Straight forward(STR)	81.6 %
Wobbling(WOB)	59.7 %
Beating cilia frequency(BCF)	4.1 time/s
Sperm number in fast rectilinear mo	7
Sperm density in fast rectilinear mo	5.5 10 ⁶ /ml
Motility in fast rectilinear movement	10.4 %
Amplitude of lateral hunting(ALH)	4.0 µm

morphological examination

Rate of Deformity 5.8 %

WBCs : 1-2

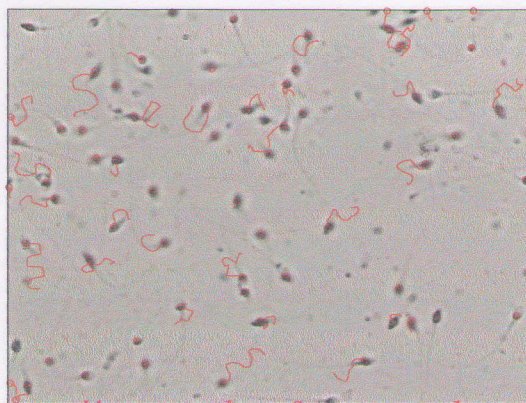
RBCs: 1-2

Epithelial cells: few

Bacteria : few

Agglutination : few

Spermatid : few

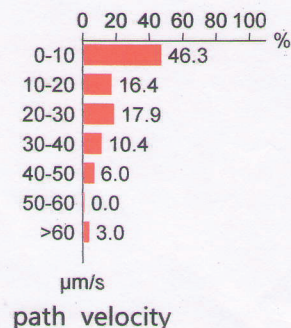
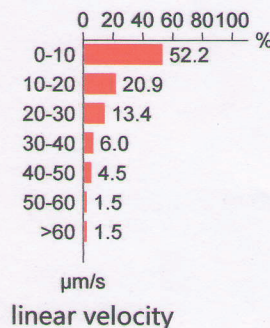
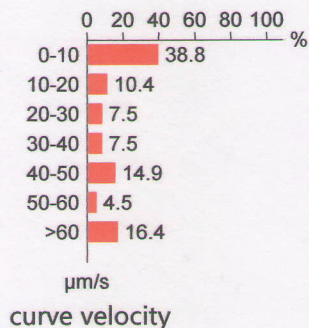
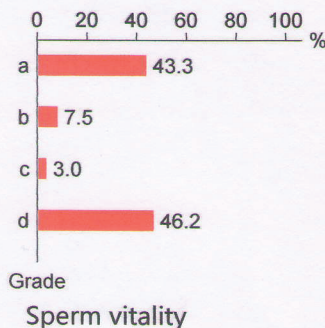


appendix: normal reference value

Volume >=2 ml Class A(fast) >=25%

Liquefaction time <=60 minute Class B(middle) >=40%

pH 7.2-8 density >=20 10⁶/ml



0783 330 0730 البصرة 0771 608 6395 بغداد
0751 815 6446 الموصل 0751 815 6446 أربيل
0770 562 4669 العمارة 0770 681 5747 سلیمانیة
0790 238 8611 الأنبار 0770 135 0023 كركوك
0774 024 2223 واسط

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شركة أفلو للاجهزة الطبية و المختبرية

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