

Sperm Analyzers

SFA-500-2

Analyzer of spermatic basic fertility indexes

Approximately 15% of couples attempting their first pregnancy meet with failure. Specialists claim that male factor is responsible in about 50% of infertile couples.

Concentration and motility of spermatozoa are the most important factors to determine fertility of a male.

Sperm Fertility Analyzers SFA-500-2 are designed to measure concentration and motility of spermatozoa in undiluted native ejaculate (sperm) in the easiest and quick way.

SFA analyzers are fast and precise devices, which help to diagnose the basic abnormalities in male reproduction function and to determine the therapeutic strategy.

SFA sperm analyzers were developed on the basis of modern computer and optic technologies and they have neither analogues nor prototypes. Despite sophisticated construction, SFA-500 analyzer is extremely simple and easy-to-use. To make an analysis it is sufficient only to fill in the measuring cuvette with the specimen and place the cuvette into measuring column. Measuring process is fully automated: less than in 5 min measured and calculated results will be displayed on the computer monitor screen and can be printed, if necessary.

SFA Sperm Analyzers are supplied with custom-made optical glass cuvette and specialized software. The software controls automated operation of the analyzer, processes measuring results, saves analysis data with timing marks and commentary records on the hard disk. Results of analysis are displayed on computer screen and can be printed.



SFA-500-2

Includes digital microscope column to view, take photos and video of live sperm

SFA sperm fertility analyzers have been clinically tested in Obstetrics, Gynecology, and Perinatology Research Center of Russian Academy of Medical Sciences and other leading Russian medical and scientific centers. They are recommended for use in hospitals, andrological and urological clinics, departments, laboratories and by private doctors.



BIOLA Ltd. (Scientific & Production Company)

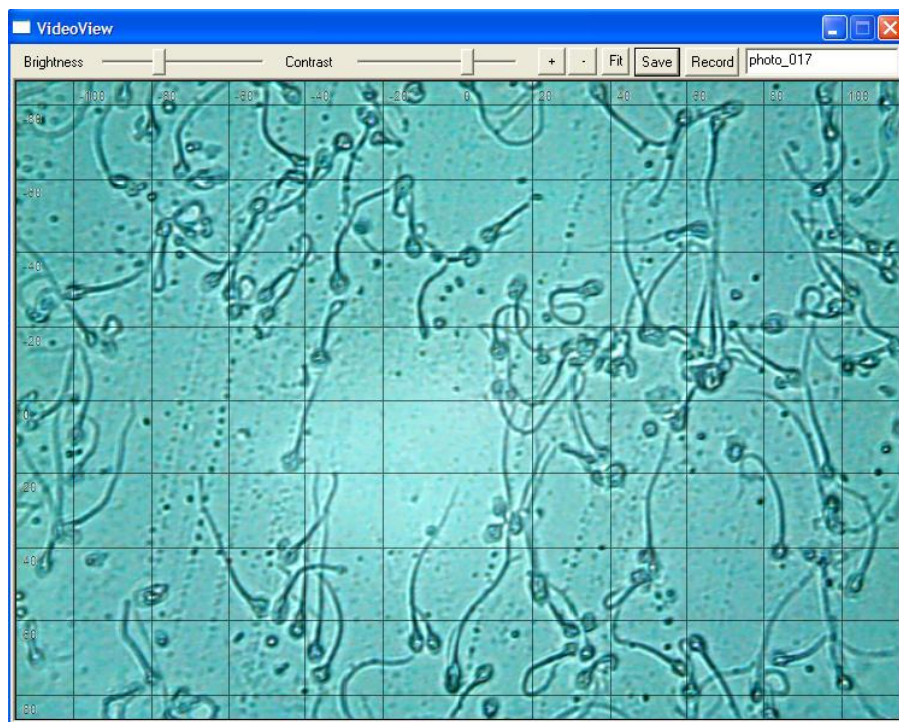
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Measured and calculated parameters		Technical specifications	
Total spermatozoa concentration (TSC)	+	Specimen volume:	50 μ l
Motility (a+b+c)	+	Thermostating range:	(25...42°C) \pm 0.2°C
Motility of swift (a)	+	Analysis time:	4.5 min
Progressive motility (a+b)	+	Concentration range :	(5...250) x 10 ⁶ /mL
True motility (faster 4 μ /sec)	+	Constant bias:	<5%
Non-progressive motility (c)	-	Repeatability error (rms):	<5%
Immobility (d)	-	Power supply:	AC 220-240V/50-60 Hz
Non-progressive motility + very slow (less 4 μ /sec)	+	Dimensions:	300 x 300 x 185 mm
Calculation of spermatozoa with normal morphology	+	Weight:	Appr.3.8 kg
Motility spermatozoa concentration (MSC)	+	Electric consumption	Appr. 30 W
Progressive motility spermatozoa concentration (PMSC)	+		
Functional spermatozoa concentration (FSC)	+	Estimated expenses for operation	
Sperm motility index (SMI)	+	Capillaries	0
Mean spermatozoa velocity with progressive motility	+	Control material	0
Total number of spermatozoa	+	Daily cleaning of optical system	0
Total number of motility spermatozoa (TMS)	+	Total expenses for 1 year operation	0
Total number of progressive motility spermatozoa (TPMS)	+		
Total number of functional spermatozoa (TFS)	+		
Self-test/self-blocking	+		
Visualizing via digital-microscope	+		
Patients archiving	+		
PC compatibility	+		



View of live sperm
on computer monitor screen



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