

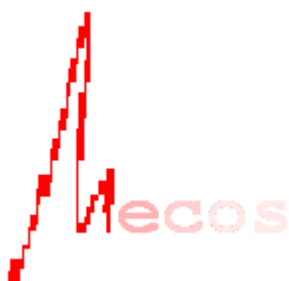
**Microscopy complex MECOS-C2
MECO-HEMO technique for blood smear tests**

Specification

Microscopy Platform	1 M-9 automatic movement, focusing, brightness adjustment; manual lens change	1/4/8/50/200 O-9 automatic movement, focusing, changing resolutions, brightness settings, immersion 1/4/8/50/200 glasses of a batch of loaded slides; Walk-Away mode
Loading of glasses	1	1/4/8/50/200
Microscopy method	Passing light	
Resolution	Of the μm of the specimen per pixel of shooting - the aperture of the lens: 0.45-0.25; 0.23-0.75; 0.2-0.85 (option); 0.14-1.25	
Types of smears	Preparation of blood smears standardized automatic, manual, mechanical; Standard coloring for WBC analysis; standard coloration on reticulocytes	
Maximum sample size	WBC up to 1000, RBC up to 2000, PLT up to 1000	
Glass per hour	Up to 15	Up to 30
Automatic smear scan	adaptation to the size, shape, thickness, coloration of the blood smear with the choice of the smear area for collecting samples of WBC, RBC with preserved morphology; with the collection of a sample of WBC of a given volume; probability of WBC cells skipping up to 0.02	
Results of analysis 2 opinion (RA 2) automatically	Gallery of shooting frames (GSF) for RBC morphology analysis at a resolution of 0.14 (RBC GSF) Gallery of WBC detections at 0.23/0.2 resolution (WBC GSF); Image gallery of WBC sorting at a resolution of 0.14 (WBC GOA sorting): segmented neutrophils, band neutrophils, eosinophils, basophils, monocytes, lymphocytes, blasts, promyelocytes, myelocytes, metamyelocytes, plasma cells, normoblasts, others with an error of automatic sorting of normal types of WBC up to 5%; Image gallery of RBC sorting at a resolution of 0.14 (RBC GOA sorting): discocytes, schizocytes, megalocytes, echinocytes, stomatocytes, elliptocytes, teardrop- shaped, target-shaped, bitten, spherocytes, others; Image gallery of PLT at a resolution of 0.14 (PLT GOA); Price-Jones curve, RBC optical density histograms, RBC ovalocytosis index; PLT concentration relative to RBC; Parameters of morphometry of nuclei and cytoplasm of WBC in WBC GOA sorting	
Results of analysis 1 opinion (RA 1) by interactive control of RA 2 in the database at the workplace of the control module	Control and adjustment of WBC GOA sorting, RBC GOA sorting, PLT GOA by special Gallery Browser; Visual evaluations of morphology of RBC, PLT, extracellular elements in the RBC GSF; Additionally: Viewing WBC detections in WBC GSF with the possibility of replenishment of the WBC GOA sorting; Introduction of an additional type of WBC into the composition of the types of the Special Gallery Browser	
Accuracy statistics of RA 2	Automatic collection of statistics on the RA 2 adjustment when forming RA 1 to make a decision on the possibility of using RA 2 as RA 1 without control	
RA 1 control and analysis of RA 2 at the LIS workplace, option	Installation of the Gallery Browser at the LIS workplace. Formation of RA 2: Export of selected RA 2 from the technique database to the LIS buffer; Interactive analysis of RA 2 of LIS buffer with formation of RA 1; Import of RA 1 from LIS buffer to the technique database	
Analysis of blood smears with staining on reticulocytes	Semi-automatic formation of a gallery of images of reticulocyte sampling; automatic calculation of the reticulocyte concentration relative to RBC, option	
Automatic hemoanalyzer data reception, option	Automatic import of hemoanalyzer data into RA 2 via analyzer protocol	
Consultation of RA 2 on telemedicine server, option	Ability to export RA 2 with deleted personal data from the database in DZI format to http://mecossvirt.ru cloud site-server with simultaneous placement of up to 5/100 (optional) RA 2 on the secure page of the exporter; Personal account with access password for visitors of the exporter's page; Individual/collective viewing by visitors of RA 2 with the use of built-in RA 2 viewers, with the formation of the conclusion of the RA 1 for the exporter	
Export RA 1 to maintenance server, combine software update, option	Possibility of automatic export of RA 1 with remote personal data from the technique database to the training database on the cloud maintenance server MecosMonitor for training automatic RA 2 analyzers of the technique; Remote updating by the manufacturer of the combine software versions after their upgrades by training	

Analysis results form

Lab ID		Slide ID		Cytopathologist ID		date	
WBC				RBC			
Sample size				Sample size			
Type	% norm	%		Type	% norm	%	
segmented neutrophils				discocyte			
band neutrophils				schizocytes			
eosinophils				megaliocytes			
basophils				echinocyte			
monocytes				stomatocyte			
lymphocytes				elliptocytes			
blasts				teardrop-shaped			
promyelocytes				target-shaped			
myelocytes				bitten			
metamyelocyte				spherocytes			
plasma cells				others			
normoblasts				Ovalocytosis index			
others				<div style="text-align: center;"> <p>Price-Jones curve</p> </div>			
PLT							
Sample size							
Fonio concentration %							
Population estimates							
Toxogenic granularity							
Basophilic granularity							
Anisocytosis							
Poikilocytosis							
Taurus Jolly							
Cabbot Rings							
other							
Hemoanalyzer data		Consultation LIS		Telemedicine consultation		Export to maintenance server	
Gallery adjustments %							
WBC %		RBC %		PLT %		New type name, discoveries	



Manufacturer of MECOS Ltd
 Ugreshskaya Street, 2, b. 72, Moscow, Russia
 +7(495)1284377
 info@mecos.ru
 http://mecos.ru
 License No FS-99-04-002464
 Patent RU No. 2703106
 ISO 13485-2017 GMP