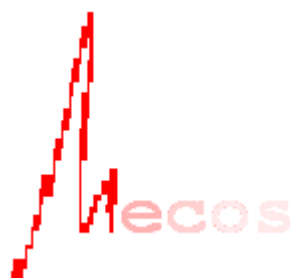


Microscopy combine MECOS-C2

Specification of the MECO-PARAS technique for tests on helminth eggs and protozoa

| | | |
|--|--|---|
| Microscopy platform | 1 M-9 | 1/4/8 O-9, immersion automatic (optional) |
| Loading of glasses 25x76 mm | 1 | 1/4/8/50/200 |
| Microscopy method | Passing light; reflected light (optional) | |
| 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); 0.17-1.0 (option) 0.14-1.25 (option) | |
| Specimen types | Wet specimens on slide 76x26x1 mm under cover glass 15x15 – 22x22 mm ether/vinegar-formalin sedimentation | |
| Slide glass map | at a resolution of 3.4 μm automatically | |
| select the boundaries of the scan area | <ul style="list-style-type: none"> - interactively on the window of the specimen live video; - automatically on the preset area; - interactively on the glass map; - automatically on the glass map by contrasting boundaries of the specimen / by the boundaries of the cover glass | |
| Results automatically (2AR) with fixation in the DB | 2D/3D panorama of the scanning area (BC 2D/3D) in the MECOS format: <ul style="list-style-type: none"> - with 2D VS focusing by extrapolation on the scanning area / with autofocusing of each frame; - with layer-by-layer shooting at the depth of focus of 3D VS with automatic / specified number of 3D layers. When using 2D VS, automatic detection of helminth eggs in the VS, repeated automatic survey of detected objects at a resolution of 0.23 μm with the formation of subgalleries sorted by species; When using 3D BC, automatic detection of helminth eggs and protozoa in the VS with the formation of subgalleries sorted by species | |
| Scanning speed of 2D VS mm^2/sec at resolution: | 0.45 up to 10; 0.23 up to 3 | 0.45 up to 13; 0.23 up to 4 |
| Results 1 Opinion (1AR) by 2AR controlled on the workplace of the platform | Control and adjustment of automatic sorting of subgalleries using browser with 3D built-in atlas helminths and protozoa (Opisthorchis felineus / Taenia solum / Himenolepis nana / Enterobius vermicul / Trichuris trichiura / Ascaris l. fertile / Ascaris l. unfertile / Diphillobothrium L. / Strongyloides ster. / Entamoeba histolyt. / Lamblia interstin. / Balantidium coli / Entamoeba coli / Endolimax nana / Iodamoeba Biitschlii / Entamoeba Hartmanni / Chilomastix mesnily / Enteromonas hominis / Blastocystis hominis / Dicrocoelium lanceut. / Toxocara mystax / Toxascaris leonine / Nanophyetus schikhobalowi / Ceyptosporidium parvum); Monitoring and correcting missed detections using a VS browser with map navigation, VS moving and zooming, viewing 3D depth, fixing missed detections in subgalleries; The possibility of forming a new type of analysis object and a subgallery; 1AR conclusion on the form | |
| 1AR by 2AR control at the LIN workplace | Installation of PARAS browsers in the LIN workplace. Export selected 2AR from the DB to the LIN. Interactive analysis of the 2AR in the LIN workplace. Import 1AR from the LIN to the DB | |
| 2AR Accuracy Statistics | Automatic collection of statistics adjustments 2AR when forming 1AR to decide on the possibility of using 2AR as 1AR without control | |
| Internet working with AR on a remote access server http://mecosvirt.ru | Export of ARs selected from the DB to the remote access server with simultaneous placement of up to 5 or up to 100 (optional) AR on the exporter page at the server; a personal office for visitors to the exporter's page; individual/collective AR viewing by built-in browsers without additional software and downloads; providing adjustment GOA tools with the formation and forwarding of 1AR additions/corrections to the exporter | |
| Internet working with AR on the MECOSMonitor support server | automatic export of 1ARs selected from the combine DB to the cloud support server Training DB for automatic training of PARAS analyzers; Remote update by the manufacturer of combine software versions after modernizations | |



Manufacturer of MECOS Ltd
 Ugreshskaya Street, 2, b. 72, Moscow, Russia
 +7(495)1475677
 info@mecos.ru
 http://mecos.ru
 License No FS-99-04-002464
 Patent RU No. 2703106
 ISO 13485-2017 GMP