AVE−562

Fully Automated Feces Analyzer

❖ *Main Technical Parameters*

Measurement Technology:	Automated Morphological Microscopy and Immunochemical Method
Throughput:	90 tests / hour
Recovery Ratio of Formed Elements:	≥80%
Reproducibility (CV):	≤20% at concentration level of 20-200 cells/μl; ≤12% at concentration level of 500-1000 cells/μl; ≤8% at concentration level of 5000 cells/μl
Carryover Ratio of Formed Elements:	≤1 cell/μl at concentration level of 4600-5400 cells/μl; ≤2 cells/μl at concentration level of 9200-10800 cells/μl
Loading Capacity of Automatic Sampler:	4 racks of 10 cups
Loading Capacity of Cuvettes:	200 pieces
STAT Position:	Available
Memory:	Min. 200,000 results, including all images captured
Built-in Computer:	Yes
Built-in Barcode Reader:	Yes
Printer:	External Laser
Interfaces:	Bidirectional with LIS/HIS
Dimensions:	705mm*690mm*640 mm
Weight:	80kg

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Fully Automated Feces Analyzer

AVE® 爱威科技股份有限公司
AVE SCIENCE & TECHNOLOGY CO.,LTD

Building B6, Luguyuyuan, No.27 Wenxuan Road,
Changsha Hi−tech Industrial Development Zone,
Changsha, Hunan 410205, P. R. China

Tel: +86 731 8892 5308
Fax: +86 731 8892 7753

E−mail: IBD.AVE@c−ave.com
Web: www.c-ave.com

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Technology Serves Health

AVE-562

Fully Automated Feces Analyzer

Wbc

Abc

Coli

Rbc

Taking the manual microcopy method as the Gold Standard, fulfilling complete automation of the feces test:

Sample Collection: Unique sample collection cup, ensuring closed and pollution-free sample delivery.

Sample Preparation: Automatic dilution, mixing and filtration with high recovery ratio of formed elements, especially parasite ova, in feces sample.
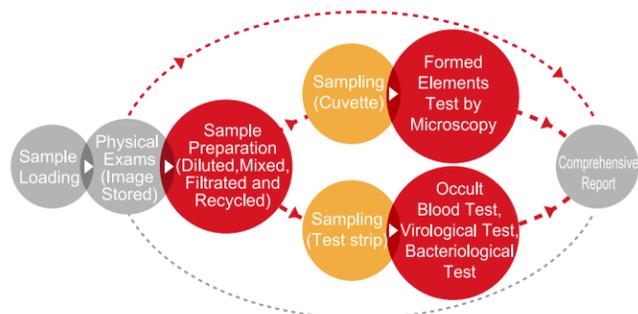
Sample Testing:

（1）Automatic image capture and analysis of the color and characters in feces sample;

（2）Automatic image capture and analysis of test cards;

（3）Automatic microscopy, recognition, classification and counting of feces formed elements.

Test Report: Comprehensive report on physical index, chemical or immunological test card results and formed elements results of feces samples, with images.

Complete walk-away automation of work process.

∴ Instrument Work Flow


∴ Test Items

Test Items		Parameters Detected
Microscopy Test		All types of Feces Formed Elements visible under microscopy
Physical Exams		Color, character with images
Test Cards	Fecal Occult Blood	FOB
	Virological Test	Rotavirus, Adenovirus, Coxsackie virus etc.
	Bacteriological Test	Helicobacter pylori etc.
Extensible Tests		Urine, Cerebrospinal fluid, Hydrothorax, Gastric juice etc.

∴ Product Features:

1. Sampling Cup (patented): Integrated with multipoint sampling spoon, completely closed, biological pollution free, intelligent mixing based on sample character image, with filters of two different mesh sizes to remove waste and gather ova effectively.

2. Disposable high-precision cuvette(patented) avoids risks of tube blocking and carryover.
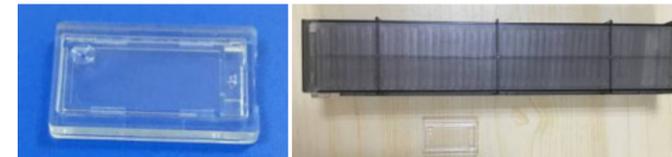
3.Five cuvettes in line for sedimentation system ensures sharp images of particles and high throughput.

4. Optional combination of five kinds of test cards meets the demands of medical institutions at all levels.
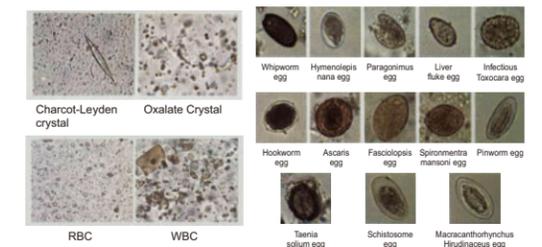
5.Patented cassette design protects test cards against humidity and makes reloading easier.

6.Intelligent field of vision adjustment system optimizes image background dynamically.

7.Multi-focus system guarantees sharp images and high precision to avoid un-detection.

8.Characteristic parameters of particles are extracted from the images captured by CCD automatically and then analyzed by software for further recognition, classification and counting.
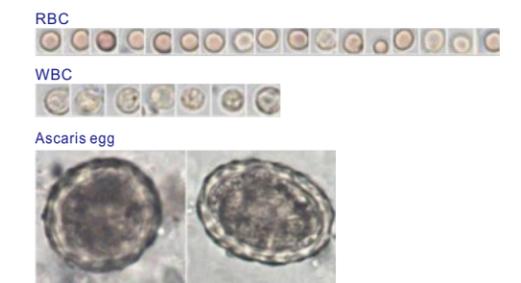
9. Segmentation verification system reduces workload of lab staff.

10.Unique exhaust control method thoroughly solves the odor problem in labs.