Specification

5A Feces Analysis System	
Functions	Specimen Pre-processing; Morphological Examination; Immunological Testing
Specimen processing principle	Sciendox® Full Filtration Separation Technology
Morphological examination principle	4 channel microscopic examination, automatic imaging and identification
Quantity of pictures	LPF plus HPF maximum 75 photos
Immunological test principle	Colloidal gold agglutination
Colloidal gold reagents	RV (Rotavirus), HP (Helicobacter pylori), FOB (Fecal Occult Blood), TF (Transferrin), ADV (Adenovirus), CAL (Calprotectin)
Capacity	5 samples
Working speed	25-30 test/h (Both Morphological Examination and Immunological Testing)
Waste gas disposal	Multiple filtration (Meets HEPA standard requirements)
Waste disposal	Automatic ejecting into waste bags
Display and input	External PC with color LCD, keyboard and mouse
Data memory	100,000 tests
Output	Compatible with USB printer
Data link	Available for LIS and HIS
Power	AC 220V±10%(50/60Hz)
Dimensions	W800mm×D800mm×H820mm
Weight	80kg

HUMAN HEALTH
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◎ Feces Analysis Automation
◎ Closed System
◎ Full Filtration Separation
◎ Expandable Test Items
◎ Biosafety Protection

Specimen Collection

A convenient solution for feces specimen collection

1 Sciendox sample container and separable sample collection spoon.

2 Take appropriate amount of specimen.

3 Especially take specimen with blood or mucous.

4 Insert the spoon into the container.

5 Bend the spoon against the container wall to automatically separate spoon head.

6 Close the cap and send for test.

Full Filtration Separation Technology

Mixing and filtering

- Fast forward and reverse mixing action quickly releases fecal elements
- Specimen tearing cross, breaks fecal sample into small pieces
- Filtrate acquired from double filtration

Diluent addition → Mixing → Filtration → Filtrate

Full Filtration Specimen Processing

Puncture injection hole

Specimen tearing cross

Double filter

Control valve

Filtered solution exit

Filtrate

- Filtrate in test tube can be stored at -20℃ for long term storage
- Puncture hole and Silicone-gel cap provide a closed system to avoid cross contamination
- Barcode compatible for specimen management

Puncture Hole

Silicone-gel Cap

Barcode

Morphological Examination

Artificial intelligence recognition

- High resolution microscopic imaging
- Morphological recognition based on AI supervised learning
- Automatic identification

Automatic microscopy

High and low magnification lenses

4 Channel flow cell

- Auto focus delivers clear images
- Can process 4 samples at once
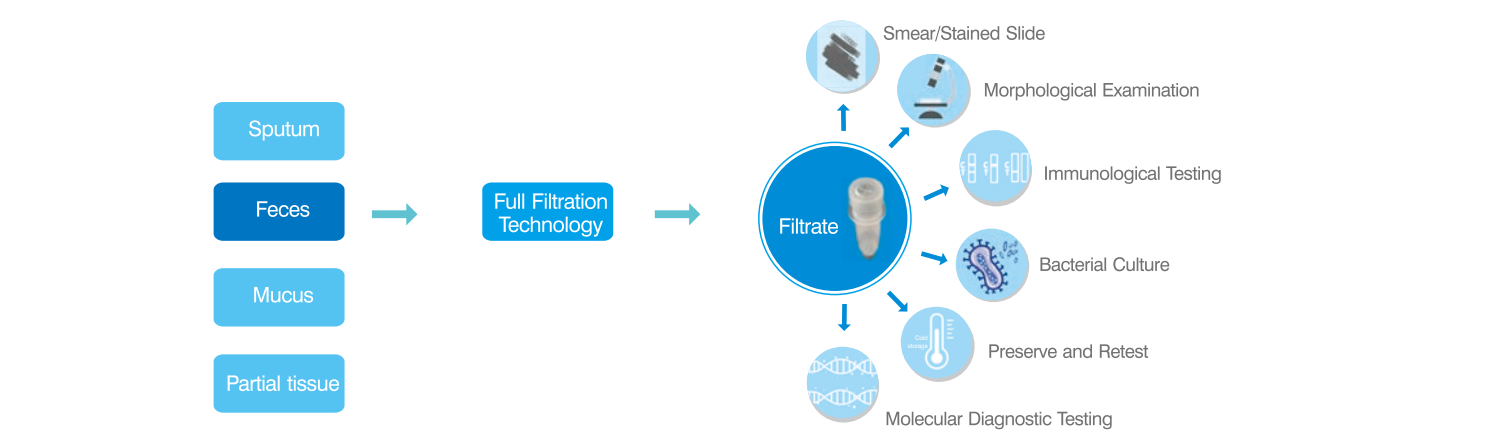- Automatic cleaning after each test

Customizable functions

- The number of LPF and HPF images can be set by end user
- Morphological test items can be added at any time

Immunological Testing

- 4 reagent trays, 20 test slots
- Full automatic colloidal gold immunoassay
- Smart carousel can process multiple samples at once
- Test items:

  FOB (Fecal Occult Blood)   RV/ADV (Rotavirus/Adenovirus)
  TF (Transferrin)   HP (Helicobacter pylori)
  RV (Rotavirus)   CAL (Calprotectin)

Expandable Test Items

Sputum

Feces

Mucus

Partial tissue

→ Full Filtration Technology → Filtrate

Smear/Stained Slide

Morphological Examination

Immunological Testing

Bacterial Culture

Preserve and Retest

Molecular Diagnostic Testing

Sample Processing

More effective, more convenient, more flexible, more applications

- Easy slide-in racks with 5 samples position
- Automatic barcode scanning and image acquisition
- Non-stop working process can add and remove samples at any time
- Automatic sample container barcode and test tube barcode matching

User friendly graphical operating interface

- Visually display all specimen locations and processing status
- Image editing feature enables remark, add text, ruler, print
- 2 way LIS allows automatic transfer of patient information and saved results

Data Output Function

- LIS and HIS compatible
- Data backup function
- Sample container, colloidal gold and morphological images can be added into graphical reports

Biosafety Waste Disposal

Built-in full-auto waste collecting prevents exposure to medical waste

Waste gas: HEPA air filter and pump

Waste liquid: Automatic discharge to container or drainpipe

Disposables: Automatic ejecting into waste bags