

# Agility® & SmartKits®

## New generation of ELISA automation

The true solution for walkaway performance



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# Agility®

The instrument redefining ELISA processing with major impact on automation, ease of use, reagents loading, hands on time, productivity and intelligence. Now compatible also with TestLine SmartKits® for the most comprehensive ELISA utilization.

Agility® significantly reduces the total assay time as well as loading of reagents. The system allows up to 16 SmartKits® to run simultaneously as well as to keep 12 plates on board at one time. All consumables for each assay are already prepackaged in the TestLine SmartKit® for the maximum user comfort and safety.

## Automation

- Up to 16 SmartKits® carriers stored on-board for simultaneous runs
- Flexible throughput allows up to 12 plates on-board at once
- Up to 200 sample tubes on-board with additional continuous load capability
- Utilizes three precision robotic arms to obtain maximum process efficiency
- Comprehensive monitoring system measuring consumables levels



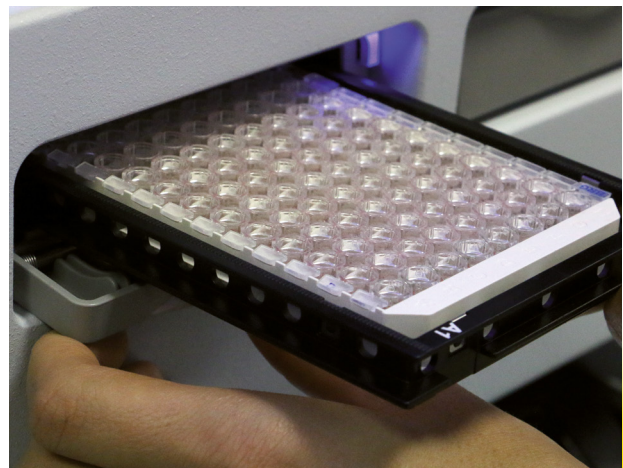
## Minimizing of Operating Time



Agility®  
12:55 min



"Classic" ELISA  
analyzer  
36:45 min



## Ease-of-Use & Hands on Time

- Intuitive, easy-to-use interface
- Eliminates most of ELISA's labor-intensive, front-end setup
- Reduces hands-on time by two-thirds of typical open systems
- Barcoding eliminates manual data input
- Comprehensive LIS integration
- Continuous sample loading allows operator to begin loading and running microplates as they are ready, instead of all at once

## Reagent Loading

- Eliminates nearly all manual liquid-transfer steps
- Free up significant labor time and allows for multitasking
- Illuminated, color-coded access positions allow simple loading of all kits, tips, microplates and other consumable items, preventing loading errors
- 2D barcodes printed on kits provide accurate and secure information
- Inventory tracking allows for maximum materials efficiency

## Safety

- Pre-packed TestLine SmartKits® with printed barcodes
- Sample tube barcode scan
- Automatic tube type recognition
- Automatic strip check
- Color-coded access positions



# Initialization

Before the analysis, the correct functionality of all device modules is checked through Initialization.



# Dashboard

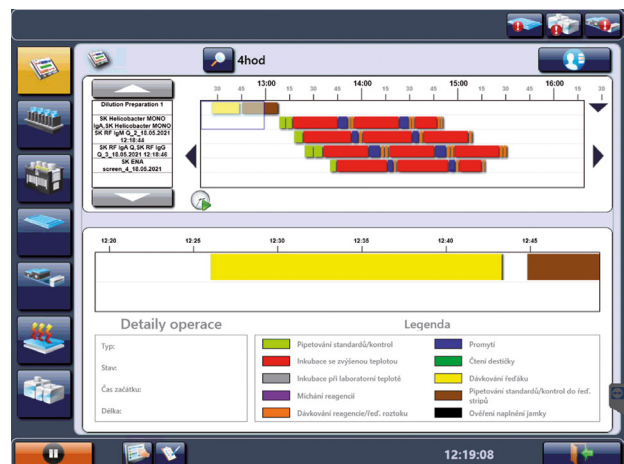
Summary of the ongoing analysis is provided in the dashboard where you can easily and quickly see all important information such as:

- number of inserted plates and the exact time remaining until the end of the analysis;
- number of completed plates;
- overview of individual ongoing and following operations;
- simple summary of inserted consumables.



# Analysis Planning

Highly sophisticated software can schedule and display the duration of analysis so all the capacity of the device will be the most effectively used. Thanks to graphically simple display the user immediately has a clear idea of how the whole analysis will take place.



# Technical Parameters

**Dimensions (W x D x H)** 1250 x 1230 x 900 mm

**Footprint** 1200 x 650 mm

**Bench Weight** 213 kg max.

**Ship Weight** 296 kg max.

**Noise** Noise output <80 dB

## System Specifications

**Number of Plates** 12 (+ continuous loading)

**Number of Sample Tubes** 200 (+ continuous loading)

**Number of Reagents** max. 16 SmartKits® at a time (+ continuous loading)

**Number of Pipettes** 2 (sample + reagent)

## Reader Specifications

**Photometric Range** 0,000 – 3,500 OD

**Spectral Range** 405 – 690 nm

**Precision** < 1% CV (0,000 – 2,000 OD)  
< 1,5% CV (2,000 – 3,000 OD)

**Accuracy** ± 0,010 OD or 2,5% (0,000 – 3,000 OD)

**Linearity** ± 1% (0,000 – 2,500 OD)  
≤ 1,5% (>2,500 OD)

**Read Time** < 30 seconds, single wavelength

< 50 seconds, dual wavelength

## Washer Specifications

**Manifold Configuration** 8-way wash head

**Programmable Volumes** 50 – 999 µl

**Wash Containers** 4 wash bottles at 3.0 l, with quantitative level sensing

**Clean Container** 1 wash bottle at 3.0 l, with quantitative level sensing

**Waste Container** 10 l with quantitative level sensing

**Residual Wash Volume** < 3 µl/well

**Dispense Precision** ≤ 5% CV (300 µl)

## Incubator Specifications

**Number of Incubators** up to 12 (6 Elevated)

**Temperature Range** RT + 4 °C to 45 °C (Elevated Incubator)  
RT + 4 °C (Ambient Incubator)

**Temperature Accuracy:** ± 1 °C

**Temperature Distribution in Plate** ± 1 °C

**Shaking** 14 Hz periodic or continuous

## Sample Pipetting Specifications

**Sample Tip Size** 300 µl

**Sample Pipetting Volume** 10 – 300 µl

**Time to Dispense** < 15 min. (50 µl, 96 samples)

**Sample Pipetting Precision** ≤ 3% CV (10 µl)

**Sample Pipetting Accuracy** ± 2% of target volume

1 part in 199 one-stage dilution,

**Dilution Range**

1 part in 39,601 two-stage dilution

**Number of Sample Tips** 20 racks of 112 tips (+ continuous loading)

**Sample Tube Dimensions** 10-17 mm diameter external dimension, 45-100 mm depth

## Reagent Pipetting Specifications

**Reagent Tip Size** 1200 µl

**Reagent Pipetting Volume** 20 – 1200 µl

**Number of Reagent Tips** 1 rack of 98 tips (+ continuous loading)

**Reagent Pipetting Precision** ≤ 3% CV (10 shots, single shot mode)

**Reagent Pipetting Accuracy** ± 2% of target volume (single shot mode)

## Power Requirements

**Voltage** 100 – 240 V automatic switching

**Frequency** 50/60 Hz

**Power Consumption** < 1000 VA (online UPS required)

## Regulatory Compliance

**Certified** ISO13485

**Electromagnetic Perturbation** EMC Directive 2004/108/EC: EN 61326-2-6:2006, IEC 61326-1:2006

**Electrical Safety** BS EN 61010-1:2001, IEC 61010-1:2001, IEC 61010-2-101

**Lead-free** all components are RoHS compliant

**IVDR** CE marked per IVDR 2017/746 Directive

# TestLine SmartKits®

Direct-load solution to front-end preparation that reduces technician time and potential for costly data entry errors, while improving ease-of-use, safety, hands on time and performance.

The TestLine SmartKits® include four main components: the consumable bottles of any given reagent kit, a 2D barcode with lot-specific assay information, an insert for holding reagent bottles and a cap holder for reagent bottle caps. Once caps are removed and stored in the cap holder, the SmartKit® is placed directly into the Agility® for testing.

## User Comfort

- Disposable, single-use inserts require no assembly
- Reagents arrive packaged in the insert with 2D barcodes already affixed
- User only takes the insert from the package, removes and places the reagent bottle cap in the cap holder, and loads the kit into the Agility®



# Parameters Offer

## **Infectious diseases**

SmartEIA Adenovirus

SmartEIA Borrelia

SmartEIA Borrelia recombinant

SmartEIA Borrelia afzelii

SmartEIA Borrelia b. sensu stricto

SmartEIA Borrelia garinii

SmartEIA Bordetella parapertussis

SmartEIA Bordetella pertussis Toxin

SmartEIA CMV

SmartEIA COVID-19 NP

SmartEIA COVID-19 RBD

SmartEIA EBV EA-D

SmartEIA EBV EBNA-1

SmartEIA EBV VCA

SmartEIA HSV 1+2

SmartEIA HSV 1

SmartEIA HSV 2

SmartEIA Helicobacter MONO

SmartEIA Chlamydia

SmartEIA Chlamydia pneumoniae

SmartEIA Chlamydia pneumoniae REC

SmartEIA Chlamydia trachomatis

SmartEIA Influenza A

SmartEIA Influenza B

SmartEIA Measles

SmartEIA Mumps

SmartEIA Mycoplasma

SmartEIA Mycoplasma REC

SmartEIA Parainfluenza mix

SmartEIA Parvovirus B19

SmartEIA PCP

SmartEIA RSV

SmartEIA Rubella

SmartEIA TBE Virus

SmartEIA Tetanus Toxoid

SmartEIA Toxocara

SmartEIA Toxoplasma

SmartEIA Treponema pallidum

SmartEIA VZV

SmartEIA Yersinia

## **Immunology**

SmartEIA dsDNA

SmartEIA ENA screen plus

SmartEIA ENA profile plus

SmartEIA SS-A

SmartEIA SS-B

SmartEIA Sm

SmartEIA U1RNP

SmartEIA Scl-70

SmartEIA Jo-1

SmartEIA CCP

SmartEIA RF

SmartEIA ASCA

SmartEIA Gliadin

SmartEIA Gliadin DA

SmartEIA Milk

SmartEIA Transglutaminase

Notes: Smartkit® kits are available in all isotypes of antibodies as with the standard TestLine EIA kits. Each kit contains 96 tests except ENA profile kits which contain 12 tests.

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