

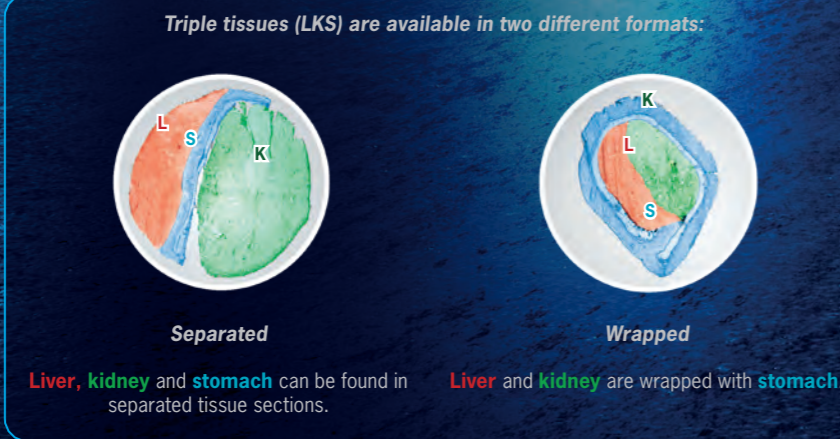
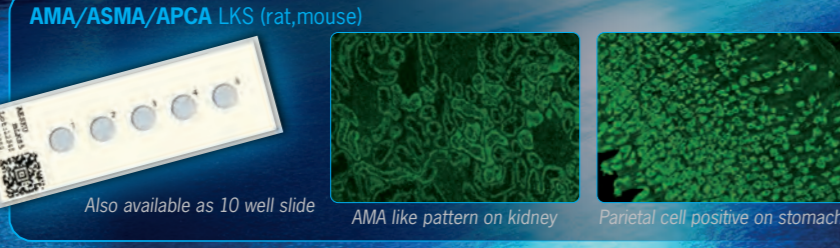
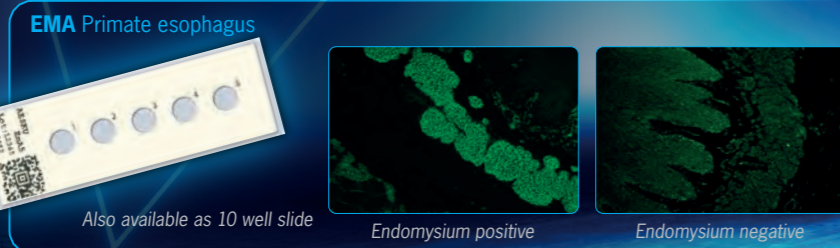
## STANDARDIZE YOUR IFA AUTOIMMUNITY SCREENING

The AESKUSLIDES autoimmunity product line includes a wide range of tissue and cell-based slides for detection of the major autoantibodies in Rheumatology (HEp-2 and nDNA), Angiology (ANCA), Hepatology, and Gastroenterology (LKS and EMA).

The Immunofluorescence Assay (IFA) uses tissues or cultured cells fixed on slides to present antigens in an in-vivo like environment, and remains the preferred method for autoimmunity screening.

### AESKUSLIDES FEATURES

- Wide range of tissue and cell-based slides for detection of all major autoantibodies
- Vacuum sealed slides for long shelf-life
- Traceability via barcoded slides and unique numbers
- IFA method enables high sensitivity
- Automation friendly standardized reagents and protocols
- Easy handling: Vials fit directly in the **HELMED** and **HELIOS**
- Suitable for automated reading with **HELIOS**
- Pattern library, including ICAP nomenclature, for better evaluation



## STANDARDIZE PROCESSING AND READING

The HELIOS is a revolutionary system that was the first to completely automate IFA (immunofluorescence) testing, from pipetting through image management. It offers unparalleled process control, traceability, standardization, ease of use, and maximum efficiency - requiring human intervention only for result review.

An optional 10x objective increases tissue processing speed by 70% and improves image quality. Pattern recognition add-ons let the HELIOS analyze captured images and automatically suggest the most likely IFA patterns, according to the substrate.

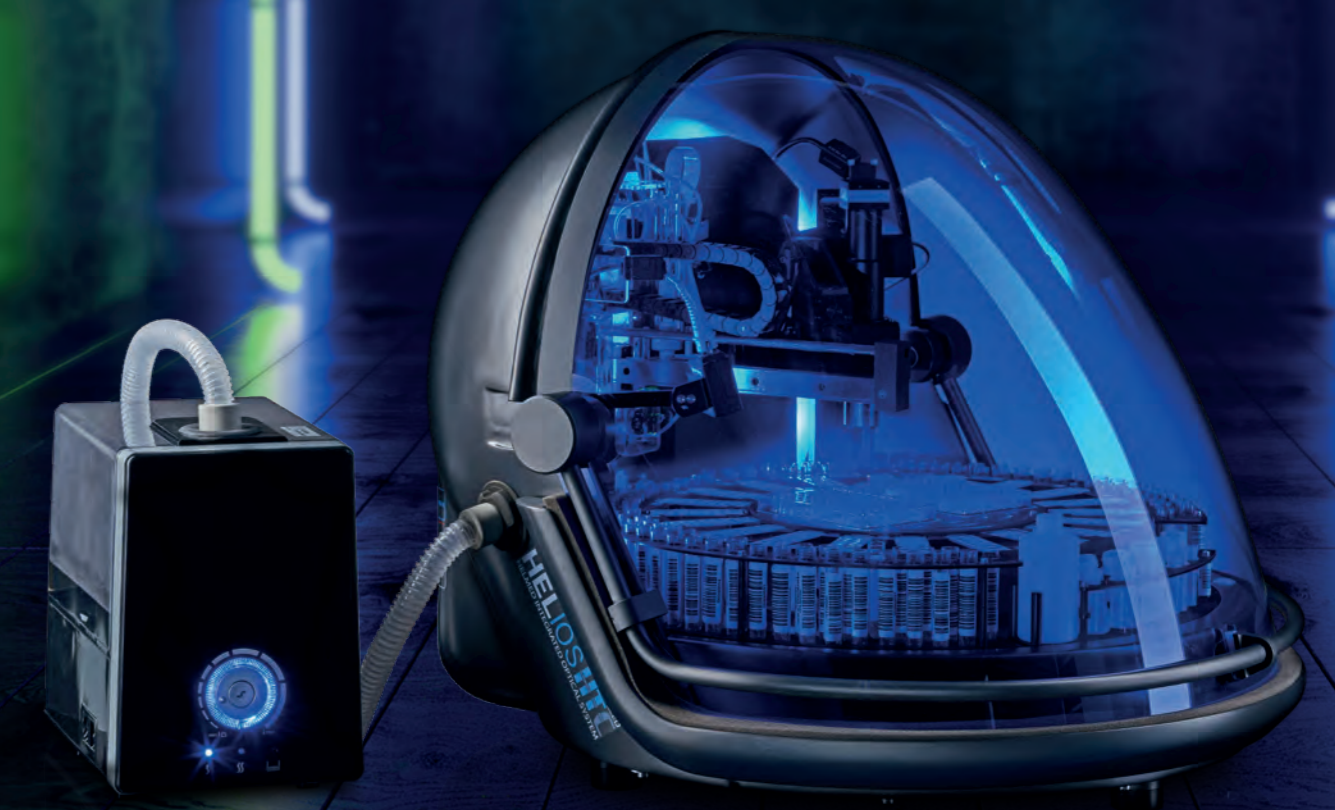
PRODUCT	REF. NO	Description
<b>HELIOS® AUTOMATED IFA SYSTEM</b>	REF. IOS-1000	Automated IFA system and reader (software/PC/monitor included)
		<ul style="list-style-type: none"> <li>• Up to 190 samples, up to 20 slides, and up to 4 different assays per run.</li> <li>• Sample dilutions are prepared on Microtiter Plates, no pre-dilution tubes required.</li> <li>• Well-by-well time management ensures consistent incubation times.</li> <li>• Well-by-well washing avoids cross-contamination compared to washing by flooding.</li> <li>• Automatic mounting medium addition is possible with our proprietary AESKUSLIDES® mounting medium.</li> <li>• No coverslips or slide transfer necessary, reading starts automatically.</li> <li>• Large pattern library included. Additional ICAP library included.</li> <li>• Pattern pre-classification - user confirms results and selects follow up tests.</li> <li>• Show all negatives function, for quick negative classification.</li> <li>• Display all results for the same sample ID within the same run on one screen.</li> </ul>



**HELIOS®**  
HELMED INTEGRATED OPTICAL SYSTEM

VERSION 001 - 2019/07/05  
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SETTING THE GOLD STANDARD IN  
IFA DIAGNOSTICS



NEW SOLUTIONS FOR IFA TESTING

## STANDARDIZE YOUR IFA MENU

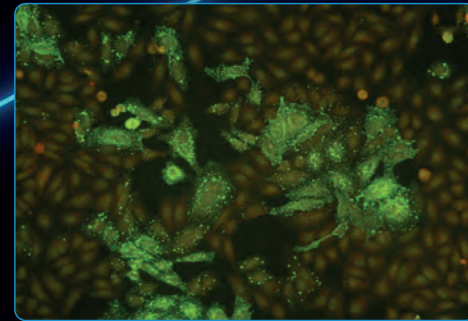
AESKU.GROUP strengthened its leading position in IFA with a newly expanded line of infectious disease products automated with the HTC module. Laboratories around the world can now access the widest range of automated and climate-controlled autoimmunity and infectious serology IFA tests from a single provider.

### NEW INFECTIOUS SEROLOGY PRODUCT LINE POWERED BY BION - AN AESKU.GROUP COMPANY

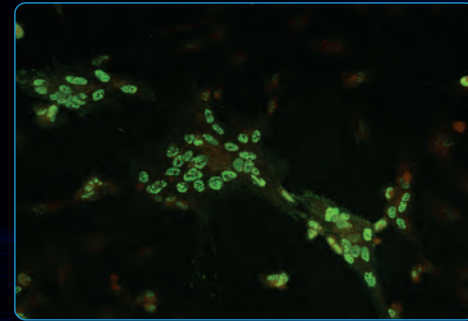
#### The World Health Organization (WHO) reports:

"Infectious diseases are responsible for a quarter to a third of all deaths worldwide, and children under the age of five account for more than half of all deaths in this group."

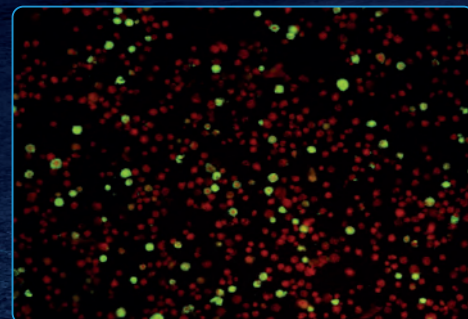
The AESKU.GROUP is proud to expand its IFA portfolio with over 30 additional tests for qualitative and/or semi-quantitative determination of specific antibodies against infectious diseases. They can be used as an aid for primary infection, reinfection, or reactivation diagnosis, as well as to determine a patient's immune status.



Mumps Virus IgG - Positive



Herpes Simplex Virus Type 2 IgM - Positive



Epstein-Barr (EBV) VCA IgG - Positive

#### MAIN FEATURES

- The AESKU IFA infectious serology line consists of a complete set of kits for the detection of antibodies to important infectious agents.
- Substrates are available for the detection of IgG or IgM antibodies.
- Tests from this product line are pre-programmed and validated to be used manually or with the HELIOS HTC module.

#### AVAILABLE TESTS SYSTEMS

- Cytomegalovirus, IgG
- Epstein Barr Virus VCA, IgG/IgM
- Herpes Simplex Virus Type 1, IgG
- Herpes Simplex Virus Type 2, IgG
- Measles (Rubeola) Virus, IgG/IgM
- Mumps Virus, IgG

#### SPECIAL ANTIGEN SUBSTRATE SLIDES

- Borrelia burgdorferi
- Chlamydia (LGV-1)
- Mycoplasma pneumoniae

#### VIRAL ANTIGEN SUBSTRATE SLIDES

- Adenovirus
- Coxsackievirus Group B Screen  
(Each well contains a mixture of Coxsackievirus B1, B2, B3, B4, B5, B6)
- Cytomegalovirus (CMV)
- Echovirus Screen  
(Each well contains a mixture of Echovirus 4, 6, 9, 11, 30 and 34)
- Epstein-Barr Virus (EBV), VCA
- EBV Nuclear Antigen (EBNA)
- Herpes Simplex Virus Type 1 (HSV1)
- Herpes Simplex Virus Type 2 (HSV2)
- Influenza A Virus
- Influenza B Virus
- Measles (Rubeola) Virus
- Mumps Virus
- Parainfluenza Virus Type 1
- Parainfluenza Virus Type 2
- Parainfluenza Virus Type 3
- Respiratory Syncytial Virus
- Varicella-Zoster Virus

## STANDARDIZE YOUR IFA ENVIRONMENT - HELIOS HTC MODULE

IFA instructions for use often include recommendations for reagent temperatures and for incubation humidity because the micro-climates in clinical laboratories vary, and sometimes can fall out of range.

The World Health Organization (WHO) has guidelines for temperature and humidity in the working environment, and the International Standards Organization (ISO) and the US Food and Drug Administration (FDA) both provide humidity and temperature ranges for clinical laboratories.

These regulations describe the optimal range for temperature as 20-25 degrees Celsius. Humidity should be 35-50 percent.

IFA standardization is a major concern across laboratories, and many standardization initiatives such as the GEAI, Easy Group, and ICAP have been launched to address this issue. Having consistent humidity and temperature helps laboratories improve the accuracy and reproducibility of their results.

To account for micro-climate variation and deliver more comparable results to our customers, a new optional module has been developed for the HELIOS. This new accessory lets technicians regulate and control IFA temperature and humidity. The "humidity and temperature control" (HTC) add-on also enables testing with a wide range of automated infectious disease substrates, including EBV, HSV, Adenovirus, and Borrelia.

HUMIDITY TEMPERATURE CONTROLLED  
**HELIOS HTC**  
HELMED INTEGRATED OPTICAL SYSTEM



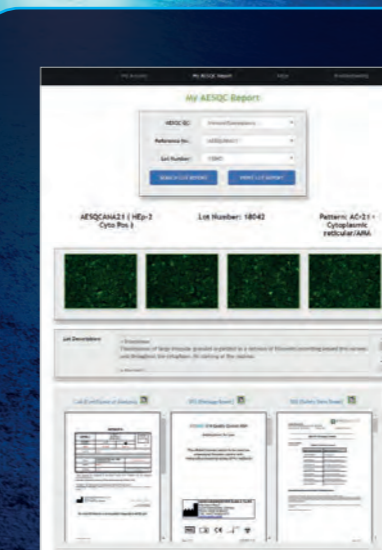
#### GENERAL SPECIFICATIONS:

- Incubation up to 37°C
- Set and maintain optimal humidity point
- Sample-ring moves every 10 seconds during incubation to guarantee environmental homogeneity
- **Sample Capacity:** Up to 190 barcoded samples
- **Sample Identification:** Built-in multi-type barcode reader for sample detection and identification
- **Slide Capacity:** Up to 20 slides
- **IFA test capacity:** Up to 4 different tests with four different conjugates per run

## STANDARDIZE YOUR RESULTS

### AESQC - Quality under your Control

AESQC IFA	REF Number	Presentation	ICAP	Vial
IFA Negative	AESQCIFANEG	3 x 0.5 mL	AC-0	
ANA HEp-2 Homogeneous	AESQCANA01	3 x 0.5 mL	AC-1	
ANA HEp-2 Centromere	AESQCANA03	3 x 0.5 mL	AC-3	
ANA HEp-2 Speckled	AESQCANA04	3 x 0.5 mL	AC-4	
ANA HEp-2 Nucleolar	AESQCANA09	3 x 0.5 mL	AC-9	
ANA HEp-2 Cytoplasmic	AESQCANA21	3 x 0.5 mL	AC-21	
ANA HEp-2 5 patterns Panel	AESQCIFANAP1	5 x 0.5 mL		



**AESQC.COM**  
QUALITY CONTROLS ONLINE SERVICE

**With AESQC.com, control what you see and see what you control.**

This online Quality Control resource provides lot-specific information, including pattern images, for AESQC IFA quality controls to help you maintain Immunofluorescence Assay quality in your laboratory.

This service is designed to help your laboratory standardize IFA testing and ensure that you give patients the most accurate results possible.