

# BioCLIA<sup>®</sup> 500

Fully Automated Chemiluminescence Analyzer  
Benchtop Compact Machine



Reliable Robust Cost Effective

***JUST THE RIGHT SET UP OF EVERYTHING***



## BUILT-IN 10 INCH PC TOUCH SCREEN

- Consolidated PC and instrument, space friendly
- Easy operation, immediate access to system information
- Windows 10 pro (64 bit), English software



## INTUITIVE PROCESS BAR & ALARM NOTIFICATION

- Real-time processing status monitoring
- Straightforward indication for acquiring alarm messages during walk away

## COMPREHENSIVE ARCHIVE

- Full traceability for historic tests
- Flexible assortments for samples/QC/calibrators/assays

## SIMPLIFIED DAY-TO-DAY OPERATION & MAINTENANCE

- Easy-to-operate daily/weekly/monthly maintenance
- Flexible choice for periodic maintenance



## SMART CUVETTES MONITORING & TRANSFER

- 130 cuvettes (2 pallets) load capacity
- Real-time inventory, refill anytime
- Proprietary cuvette trolley maximizes efficiency and accuracy of cuvette movements



## STAT

- Rapid result within one hour

## 24 SAMPLE POSITIONS, INCL. 6 STAT POSITIONS

- Continuously loading, serum/plasma
- Color LED indicators for intuitive status indication

## BI-DIRECTIONAL LIS CONNECTION

- Compatible with HL7 protocol

## BARCODED QC & CALIBRATORS

- May be loaded in any order thanks to
- Simplify routine work

## AUTO ONBOARD DILUTION

- Three flexible dilution options
- Manual pre-dilution mode compatible
- Secondary auto-dilution mode for ext





**UP TO 12 AUTOIMMUNE PARAMETERS/33 ALLERGENS LOAD CAPACITY**

- 24 hours on-board refrigerator 2-8 °C

**AUTOMATIC & MANUAL BARCODE SCANNING**

- Internal barcode reader importing Sample ID and reagent information, simplify hands-on process

**PROPRIETARY MIXER**

- Unique eccentric mixer ensures homogenous reaction

**AUTOMATED REAL-TIME INVENTORY MONITORING & ALARMING**



**MAGNETIC WASH STATION**

- 1 wash module, 4 probes ensure efficient & thoroughly wash
- 37 °C temperature control ensures adequate immunoreaction



**ON-BOARD WASH BUFFER**

- Prevent tests aborted due to delay of buffer refill or liquid waste excess
- Real-time monitoring for system buffers (Diluent/Wash buffer/Substrate/DI $H_2O$ )

automatic barcode recognition



**SAMPLE & REAGENT DISPENSING SYSTEM**

- One reagent probe, liquid level detection & aspiration alarm
- One reagent probe, precise sample aspiration, minimize cross contamination

for extreme low volume samples  
extreme high concentration samples

# SYSTEM SPECIFICATIONS

## Dimension (L×W×H)

• 500 mm × 645 mm × 648 mm

## Weight

• 89 kg

## Power Supply

• 100-240 V~, 50 Hz/60 Hz, 400 VA

## Use Environment

- Storage Temperature: -20 °C~ + 55 °C
- Storage Relative Humidity: ≤ 93% ( No condensation )
- Ambient Temperature During Working: 21 °C ~ 28 °C
- Ambient Relative Humidity: ≤ 85% ( No condensation )
- Atmospheric Pressure: 650 hPa ~ 1060 hPa, good ventilation and without corrosive gas
- Altitude ≤ 3000 m

## Sample Tube

- Standard sample rack compatible with  $\phi$  12 mm - 13 mm external diameter tubes, up to 100 mm height
- Customized sample rack available for  $\phi$  16 mm external diameter tubes, up to 100 mm height

## Minimal Volume of Sample

• Standard sample tube (  $\phi$  12 mm - 13 mm ) : sample volume > 200  $\mu$ L

## Calibration

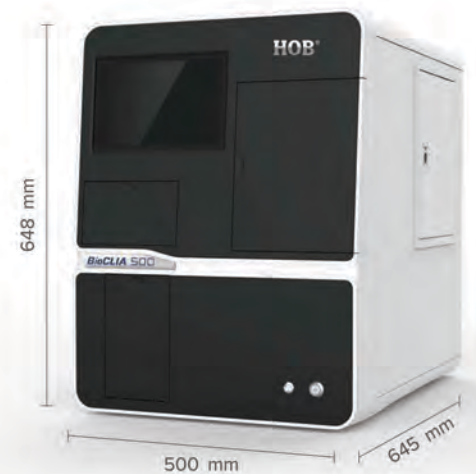
• Master curve, integrated barcoded calibrators, automatic loading

## Continuous Operation Capability

• 24-hour standby, continuous loading and unloading of samples and reagents

## Results Management

• Inquire at any time



# Time-to-Result by BioCLIA 500



<b>REAGENT ADVANTAGES</b>	<ul style="list-style-type: none"> <li>• Paramagnetic microparticles rendering semi-liquid phase reaction with shortened reaction time</li> <li>• Automated and homogenous particle suspension enhancing signal and minimizing background</li> <li>• Chemiluminescent technology intrinsically bearing broad dynamic range and detection sensitivity</li> </ul>
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# COMPREHENSIVE AUTOIMMUNE DISEASE MARKERS

COVER SEVEN MAJOR AUTOIMMUNE DISEASES

## CONNECTIVE TISSUE DISEASES

- dsDNA
- Ro-60
- SS-B/La
- nRNP/Sm
- Sm
- Jo-1
- Scl-70
- Ro-52
- Rib-P
- PCNA
- PM-Scl
- Histones
- CENP-B
- Nucleosomes
- ENA Screen I
- CTD Screen

## VASCULITIS

- MPO
- PR3
- GBM

## AUTOIMMUNE LIVER DISEASES

- AMA-M2
- gp210
- sp100
- LKM-1
- LC-1
- SLA/LP

## DERMATOMYOSITIS

- MDA5

## ANTIPHOSPHOLIPID SYNDROME

- aCL-A
- aCL-G
- aCL-M
- aCL-A/M/G
- β2GP1-A
- β2GP1-G
- β2GP1-M
- β2GP1-A/M/G

## RHEUMATOID ARTHRITIS

- RF-A
- RF-G
- RF-M
- RF-A/M/G
- CCP

## CELIAC DISEASES

- h-tTG-A
- h-tTG-G
- DGP-A
- DGP-G

## TYPE I DIABETES

- GAD
- IA2
- IAA
- ICA

## PERNICIOUS ANEMIA

- PCA
- IF

# ALLERGY ASSAYS COVER A WIDE VARIETY OF ALLE

Indoor Allergens		
COMMON NAME	LATIN NAME	CODE
House Dust Mite	<i>Dermatophagoides pteronyssinus</i>	d1
House dust mite	<i>Dermatophagoides farinae</i>	d2
House dust mite	<i>Blomia tropicalis</i>	d201
Der p 1 House dust mite	<i>Dermatophagoides pteronyssinus</i>	d202
Der p 2 House dust mite	<i>Dermatophagoides Pteronyssinus</i>	d203
Cat dander	<i>Felis domesticus</i>	e1
Dog dander	<i>Canis familiaris (Canis domesticus)</i>	e5
Fel d 1 Cat	<i>Felis domesticus</i>	e94
House Dust		h1
Honey bee	<i>Apis mellifera</i>	i1
Common wasp (Yellow jacket)	<i>Vespa spp.</i>	i3
Cockroach, German	<i>Blattella germanica</i>	i6
Cladosporium herbarum	<i>Cladosporium herbarum</i>	m2
Aspergillus fumigatus	<i>Aspergillus fumigatus</i>	m3
Alternaria alternata	<i>Alternaria alternata</i>	m6

Indoor Mix		
DESCRIPTION	COMMON NAME	CODE
d1, e1, e5, g6, m6, t3, w6, w9	House dust mite, Cat dander, Dog dander, Timothy grass, <i>Alternaria alternata</i> , Common silver birch, Mugwort, Plantain(English), Ribwort	BioCLIA TOP
d1, e1, e5, g5, g6, m6, t3, w6	House dust mite, Cat dander, Dog dander, Rye-grass, Timothy grass, <i>Alternaria alternata</i> , Common silver birch, Mugwort	sx1
m1, m2, m3, m6	<i>Penicillium chrysogenum (P. notatum)</i> , <i>Cladosporium herbarum</i> , <i>Aspergillus fumigatus</i> , <i>Alternaria alternata</i>	mx1
g3, g4, g5, g6, g8	Cocksfoot, Meadow fescue, Rye-grass, Timothy grass, Meadow grass	gx1

Food Allergens		
COMMON NAME	LATIN NAME	CODE
Egg white	<i>Gallus domesticus (Gallus gallus domesticus; Gallus spp.)</i>	f1
Milk	<i>Bos domesticus (Bos taurus; Bos spp.)</i>	f2
Fish (cod)	<i>Gadus morhua</i>	f3
Wheat	<i>Triticum aestivum</i>	f4
Sesame seed	<i>Sesamum indicum</i>	f10
Peanut	<i>Arachis hypogaea</i>	f13
Soybean	<i>Glycine max</i>	f14
Hazel nut	<i>Corylus avellana</i>	f17
Almond	<i>Amygdalus communis</i>	f20
Crab	<i>Chionocetes spp.</i>	f23
Shrimp	<i>Pandalus borealis, Penaeus monodon, Metapenaeopsis barbata, Metapenaeus joyneri</i>	f24
Beef	<i>Bos spp.</i>	f27
Carrot	<i>Daucus carota</i>	f31
Strawberry	<i>Fragaria vesca</i>	f44
Yeast	<i>Saccharomyces cerevisiae</i>	f45
Garlic	<i>Alium sativum</i>	f47
Egg yolk	<i>Gallus domesticus (Gallus gallus domesticus; Gallus spp.)</i>	f75
Bos d 4 alpha-lactalbumin, Milk	<i>Bos domesticus (Bos taurus; Bos spp.)</i>	f76
Bos d 5 beta-lactoglobulin, Milk	<i>Bos domesticus (Bos taurus; Bos spp.)</i>	f77
Bos d 8 Casein, Milk	<i>Bos domesticus (Bos taurus; Bos spp.)</i>	f78
Kiwi	<i>Actinidia deliciosa</i>	f84

# ALLERGENS

## Food Allergens

COMMON NAME	LATIN NAME	CODE
Celery	<i>Apium graveolens</i>	f85
Mutton	<i>Ovis spp.</i>	f88
Mustard	<i>Brassica/Sinapis spp.</i>	f89
Banana	<i>Musa spp.</i>	f92
Pistachio	<i>Pistacia vera</i>	f203
Egg	<i>Gallus domesticus(Gallus gallus domesticus; Gallus spp.)</i>	f245
Walnut	<i>Juglans spp.</i>	f256
Pen a 1 Tropomyosin, Shrimp	<i>Penaeus aztecus</i>	f351
Ara h 8 PR-10, Peanut	<i>Arachis hypogaea</i>	f352
Ara h 1 Peanut	<i>Arachis hypogaea</i>	f422
Ara h 2 Peanut	<i>Arachis hypogaea</i>	f423
Ara h 3 Peanut	<i>Arachis hypogaea</i>	f424
Cor a 8 LTP, Hazel nut	<i>Corylus avellana</i>	f425
Cor a 1 PR-10, Hazel nut	<i>Corylus avellana</i>	f428

## Food Mix

DESCRIPTION	COMMON NAME	CODE
f1, f2, f3, f4, f13, f14	Egg white, Milk, Fish(cod), Wheat, Peanut, Soybean	fx5
f17, f24, f84, f92	Hazel nut, Shrimp, Kiwi, Banana	fx24
f10, f45, f47, f85	Sesame seed, Yeast, Garlic, Celery	fx25
f1, f2, f13, f89	Egg white, Milk, Peanut, Mustard	fx26
f3, f4, f14, f17	Fish (cod), Wheat, Soybean, Hazel nut	fx27
f10, f24, f27, f84	Sesame seed, Shrimp, Beef, Kiwi	fx28

## Outdoor Allergens

COMMON NAME	LATIN NAME	CODE
Cocksfoot	<i>Dactylis glomerata</i>	g3
Timothy grass	<i>Phleum pratense</i>	g6
Meadow grass	<i>Poa pratensis</i>	g8
Cultivated rye	<i>Secale cereale</i>	g12
Phl p 1, Phl p 5b Timothy	<i>Phleum pratense</i>	g213
Common silver birch	<i>Betula verrucosa</i>	t3
Hazel	<i>Corylus avellana</i>	t4
Oak	<i>Quercus alba</i>	t7
Olive	<i>Olea europaea</i>	t9
Plane tree	<i>Platanus acerifolia</i>	t11
Willow	<i>Salix caprea</i>	t12
Italian/Mediterranean/Funeral cypress	<i>Cupressus sempervirens</i>	t23
Bet v 1, Birch	<i>Betula verrucosa</i>	t215
Ole e 1 Olive	<i>Olea europaea</i>	t224
Common ragweed	<i>Ambrosia artemisiifolia (A. elatior)</i>	w1
Mugwort	<i>Artemisia vulgaris</i>	w6

## Occupational Allergens

COMMON NAME	LATIN NAME	CODE
Latex	<i>Hevea brasiliensis</i>	k82

## Total IgE

COMMON NAME	LATIN NAME	CODE
Total IgE	n/a	tIgE

EXPERT IN  
**AUTOIMMUNE & ALLERGY**  
DIAGNOSTICS

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