

**SPECIFICATIONS**

Reader	
Photometric range	0 to 3.0 OD
Spectral range	400 nm to 700 nm (up to 8 filters)
Read time	< 15 sec single, < 30 sec dual
Precision	1% CV at 1.0 OD
Accuracy	±0.005 OD or 2.5% (whichever is greater)
Linearity	0 to 2.000 OD ±1%

Pipettor	
Min / max. volumes	10 µl to 300 µl with 300 µl tip 301 µl to 1000 µl with 1100 µl tip
Precision (single dispense)	<3% CV at 20 µl < 3% CV at 100 µl
Precision (multi dispense)	< 10% CV at 16 x 20 µl < 3% CV at 8 x 100 µl
Features	Pipetting pressure monitoring, capacitive liquid level detection, tip detection, mixing, multiple dilution steps, archiving

Capacity	
Sample and reagent	Up to 192 samples capacity Flexible: e.g. 144 samples + 8 reagents + 16 controls

Incubator	
Temperature range	Up to 45°C
Temperature uniformity	±1.5°C (with in-process temperature monitoring)
Shaking	20 Hz

Washer	
Precision	10% CV at 300 µl
Residual volume	<2.5 µl in U-bottom (mean) <4 µl in flat bottom (mean)
Wash buffer capacity	3 wash buffers
Modes	Sweep mode, soak, top and bottom wash, variable pump speed

Dimensions & weight	
Width x Depth x Height	97 cm x 66 cm x 75 cm 38.2" x 26.0" x 29.5"
Weight	151 kg (Gross weight), 115 kg (net weight)

**EASY INTEGRATION – NO LIMITS**

**Additional functionality through middleware software**

Easy integration	Wide range of interfaces allows consolidation of results from other instruments
Connects instruments	Operates with single or multiple GEMINI installations
Connects host	Provides smooth real time bi-directional communication between device and LIS

**Additional benefits**

Short/long term data storage	Can operate with local dbase or SQL server
Retest management	User definable retest and reflex management
Drill down	Extensive drill down capability on sample or plate data
Open and definable	Use functions (e.g. reporting) definable allows maximum flexibility
Closed and secure	Software can be locked to operate as a secure closed system



All values are achieved under optimal conditions and can vary depending on environmental conditions, instrument status and processing conditions. Specifications are subject to change with notice according to STRATEC's "Change control system"

**DIAsource's ELISA GEMINI**



**THE RIGHT COMBINATION**

- Excellent lot-to-lot consistency
- High sensitivity
- Kit controls included
- Short incubation protocol
- Ready to use TMB



**TUBE IN – RESULT OUT**

- Fully automated microplate processor for low throughput applications
- Total walk away system
- Flexible time management with LIS connectivity
- Modularity – open system
- Ease of use, installation and maintenance
- Assay performance with disposable tips
- High process safety with triple pipetting control
- Convenient programming of assay protocols
- Proven reliability
- The system is in compliance with the In-vitro diagnostic directive 98/79/EC

## READING

- Absorbance reader with up to 8 different filters
- Single or dual wavelength reading
- End point and kinetics
- Shaking

## INCUBATION

- Two independently controlled incubator chambers (up to 45°C) with shaking (20 Hz)
- Three room temperature incubation chambers

## WASHING

- 2 x 8-channel washer (aspirate and dispense)
- Three wash buffers
- Sweep mode, soak, top and bottom wash, variable pump speed

## EASE AND FLEXIBILITY

- Flexible scheduling of up to three plates
- Graphical assay protocol editor
- Combination of multiple assays on one plate
- Proven software reliability
- Bi-directional LIS connectivity, ideal with random access instruments
- Based on established EIA software platform with more than 3,000 placements worldwide

## PIPETTING

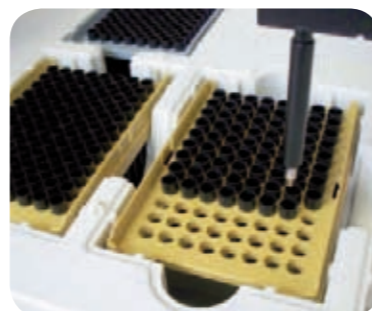
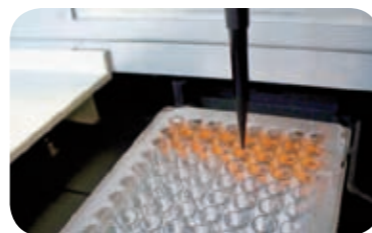
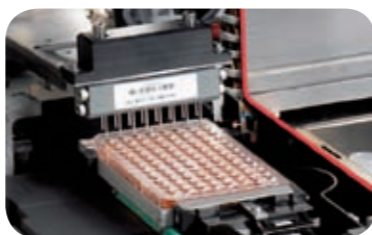
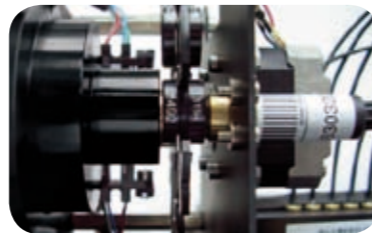
- Liquid pipettor for disposable tips (300 µl or 1100 µl)
- Flexibly programmable for single pipetting, multiple pipetting, multiple dilution steps, mixing and archiving

## SAFETY AND IN-PROCESS CONTROL

- Pipetting pressure monitoring
- Capacitive liquid level detection for optimal identification of insufficient volume and fibrin clots.
- Colorimetric dispense verification
- Positive identification of barcoded samples and reagent

## CAPACITY AND THROUGHPUT

- Initial loading of up to 192 samples
- Continuous loading of samples and resources
- Three disposable tip rack positions
- Two deep-well plate positions for pre-dilution and /or archiving



cat#	Product Description
<b>Biogenic Amines</b>	
KAPL10-1500	2 Cat
KAPL7500	2 Cat Urine Fast Track
KAPL10-1600	3 Cat
KAPL7600	3 Cat Urine Fast Track
KAPL10-1900	5-HIAA
KAPL10-0100	Adrenaline
KAPL10-0300	Dopamine
KAPL20-3000	HISQUICK *
KAPL10-1000	Histamine
KAPL10-3100	Histamine in food *
KAPL10-0700	Metanephrine Plasma Fast Track
KAPL10-0500	Metanephrine Urine Fast Track
KAPL10-1400	Nephrines Plasma Fast Track
KAPL10-1300	Nephrines Urine Fast Track
KAPL10-0200	Noradrenaline
KAPL10-0600	Normetanephrine Plasma FastTrack
KAPL10-0400	Normetanephrine Urine Fast Track
KAPL10-0900	Serotonin Fast Track
KAPL10-5900	Serotonin Research*

<b>Bone Metabolism</b>	
KAP1461	Aggrecan *
KAPEPKT800	Fetuin
KAP1381	Osteocalcin
KAP1481	PTH
KAP1921	1,25 (OH)2 Vitamin D 3
KAP1971	25 OH Vitamin D2+D3
<b>Cancer Markers</b>	
KAPD1468	AFP
KAP0421	Calcitonin US
KAPEPKT812	Chromogranin A

<b>Cardiovascular &amp; Salt Balance</b>	
KAPDB450	Aldosterone
KAPDB270	Cortisol
KAPDB290	Cortisol Salivary
KAPDB4360	C-Reactive Protein (hs-CRP)
KAPDB4600	Plasma Renin Activity
KAP1531	Renin Direct

<b>Diabetes &amp; Metabolism</b>	
KAPME09	Adiponectin
KAPME091M	Adiponectin (Mouse)
KAPME091R	Adiponectin (Rat)
KAP0401	C-PEP
KAP1251	Insulin
KAPME06	Leptin (Mouse/Rat) *
KAP2281	Leptin Human
RVE-BX-96	ProInsulin **
KAPME50	Resistin

cat#	Product Description
<b>Fertility</b>	
KAPDB460	3-α Diol G
KAPD3265	Androstenedione
KAPDB490	DHEA
KAPD1562	DHEA-S
KAP0621	Estradiol , 17 beta *
KAPD1612	Estriol , Free
KAPDB420	Estrone
KAPD1288	FSH
KAP1469	HCG+β *
KAPD4718	β-HCG , Free
KAPD1283	HPL
KAPD1289	LHsp
KAPDB4500	Pregnenolone
KAP1451	Progesterone *
KAPDB310	Progesterone Salivary
KAPD1292	Progesterone , 17α Hydroxy -
KAPD1291	Prolactin (PRL)
KAPD2996	SHBG
KAPD1826	Sperm-Antibody
KAP1701	Testosterone
KAPDB300	Testosterone Salivary
KAPDB260	Testosterone, Free
KAPDB280	Testosterone , 5α Dihydro-

<b>Gastrointestinal Metabolism</b>	
KAPRHIA09	Helicobacter pylori IgA
KAPRHIG08	Helicobacter pylori IgG
KAPEPKT810	Pepsinogen I
KAPEPKT811	Pepsinogen II

<b>Growth Factors</b>	
KAPME35	Acid Labial Subunit (ALS)
KAP1081	HGH
KAP1581	IGF-1 (or SM-C)
KAPME01	IGFBP-1
KAPME05	IGFBP-2
KAPME08	IGFBP-2 (Mouse) *
KAP1171	IGFBP-3
KAPME031	IGFBP-3 (Mouse/Rat)

<b>Immunology Markers</b>	
KAP1231	IFN-γ
KAP1211	IL-1 β
KAP1241	IL-2
KAP1281	IL-4
KAP1261	IL-6
KAP1301	IL-8
KAP1321	IL-10
KAP1561	IL-12 + p40
KAP1751	TNF-α
KAP1761	sTNF-RI
KAP1771	sTNF-RII

<b>EBV Panel</b>	
KAPREEG40	Epstein Barr Early IgG

cat#	Product Description
KAPREEM41	Epstein Barr Early IgM
KAPRENG32	Epstein Barr EBNA IgG
KAPRENM33	Epstein Barr EBNA IgM
KAPREVA27	Epstein Barr VCA IgA
KAPREVG03	Epstein Barr VCA IgG
KAPREVM04	Epstein Barr VCA IgM

<b>Hepatitis Panel</b>	
KAPG4AGE3	Anti HAV
KAPG4AME3	anti-HAV IgM
KAPG4BNE3	HBsAg / Anti-Hbe
KAPG4CBE3	anti-HBc Total
KAPG4CME3	Anti-HBc IgM
KAPG4NAE5	anti-HCV
KAPG4SA0	Confirmatory test of HBsAg
KAPG4SBE3	anti-HBs
KAPG4SGE3	HBsAg

<b>Pediatric Panel</b>	
KAPRMUG12	Mumps IgG
KAPRMUM13	Mumps IgM
KAPRMVG10	Measles IgG
KAPRMVM11	Measles IgM
KAPRVIG20	varicella zoster IgG
KAPRVM21	Varicella zoster IgM

<b>STD Panel</b>	
KAPRSPG16	Syphilis IgG
KAPRSPM17	Syphilis IgM

<b>ToRCH panel</b>	
KAPRCVG01	Cytomegalovirus IgG
KAPRCVM02	Cytomegalovirus IgM
KAPRHGG24	Herpes simplex virus 1&2 IgG
KAPRHGM25	Herpes simplex virus 1&2 IgM
KAPRHHG06	Herpes simplex virus 2 IgG
KAPRHS05	Herpes simplex virus 1 IgG
KAPRRVG14	Rubella IgG
KAPRRVM15	Rubella IgM
KAPRTXG18	Toxoplasma IgG
KAPRTXM19	Toxoplasma IgM

<b>Tropical Diseases panel</b>	
KAPRDIG22	Dengue Fever IgG
KAPRDIM23	Dengue Fever IgM
KAPRMLS37	Malaria Screen
RV610001	Giardia Lamblia

<b>Tuberculosis panel</b>	
KAPRTBG38	Tuberculosis IgG Elisa
KAPRTBM39	Tuberculosis IgM Elisa

<b>Thyroid Function</b>	
KAPDB4240	L-Thyroxine (T4)
KAPDB4340	L-Thyroxine – Free (fT4)
KAPDB4220	Triiodothyronine (T3)
KAPDB4230	Triiodothyronine – Free (fT3)
KAPDB4080	Thyroid Stimulating Horm. (TSH)

\* For Research Use Only

\*\*Not Distributed in Belgium and Germany