

ELAP Mini

Early Life Application Platform Mini



This 2-plate fully automated open platform is compact, efficient and innovative. Features include positive identification sample racks, continuous barcode reading, and on-board optics for remote trouble-shooting access. The interface is bidirectional and compatible with any LIS system. User friendly, flexible, and customizable software make automation possible for any EIA application. Up to 192 results can be generated in one run on a combination of up to 8 assays. Our Early Life Application Platform Mini is a customized processor based on the automated equipment.

Technical Specifications

Dimensions :

W : 64 cm

D : 57 cm

H : 45 cm

Weight :

28 kg

Supply Voltage :

100-265V, 50-60 Hz

Orbital Shaker :

Amplitude : 1 mm

Adjustable speed : 400-1000 RPM

Voltage : 24 Volts

Capacity : 3 MTP

Adjustable shaking time : 0 to 2 hrs.

Unique features

- Open system to process any EIA assay program
- Intelligent Racks, automatically detect the position in which barcoded vials are placed
- 192 patient sample positions
- Standard 13 x 75 mm racks; custom racks for any sized vials available
- 14 position reagent rack holds 22 to 35mm vials
- Custom racks for any sized vials available
- Retractable carrier for loading and unloading samples & reagents
- Protection from light
- Internal camera for real time viewing of probe activity

Specifications

- 2 microplates positions
- 1 pre-dilution microplate position
- 2 external wash bottles
- 2 separate needles (aspiration and dispensing) – liquid detection by conductivity
- precise aspiration volume of 1 μ L
- metal needle : no plastic disposable needed
- orbital shaker for all microplates
- individual incubator (20 to 40°C) for all microplates
- built in Photometer: 405, 450, 490, 550, and 620 nm wavelengths standard
- wide range of result calculations available : linear, spline, Lin-Log, etc...
- multi language software capability





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Following the elaborated demand from various markets and as response to aggressive strategies of our main competitors, Zentech decided to provide a automated processor platform which is dedicated to the automation of Zentech's Early Life Diagnostic kits and other ELISA assays in its portfolio.

THE MACHINE

- 1. System Cover
- 2. Laptop PC
- 3. Bar Code Scanner
- 4. Intelligent Sample Rack Platform
- 5. Reagent Rack Platform
- 6. Microtiter Plate Platform
- 7. Probes With Camera

Newborn Screening Tests

Using Dried Blood Spots samples (DBS)

Usually, all newborns are routinely screened for certain genetic, metabolic, hormonal and functional disorders. Most of these birth defects have no immediate visible effects on a baby but, unless detected and treated early, can cause physical problems, mental retardation and, in some cases, death. Fortunately, most babies are given a clean bill of health when tested. However, a lot of babies are found to have metabolic disorders and in these cases, only an early diagnosis and proper treatment can make the difference between healthy development and lifelong impairment. Many of the tests use a blood specimen taken before the baby leaves the hospital : the baby's heel or finger is pricked to obtain a few drops of blood and blotted filter paper for laboratory analysis (Dried Blood Spots or DBS).



The diseases the newborns are routinely screened for are:

- » **Endocrine disorders :**
Congenital hypothyroidism (TSH)
Congenital adrenal hyperplasia (17 OH-P)
- » **Blood cell disorders :**
Glucose-6-phosphate dehydrogenase deficiency (G6-PD)
- » **Inborn errors of carbohydrate metabolism :**
Galactosemia (TOTAL GALACTOSE)
- » **Inborn errors of amino acid metabolism :**
Phenylketonuria (PKU)
Maple syrup urine disease (MSUD)
- » **Genetic diseases and metabolic disorders :**
Cystic Fibrosis (IRT screening assay)
Biotinidase deficiency (BTD screening assay)

Reference Code	Product Name	Intended Use	Method	Sample type	Control included	Tests /Kit
SCREENING ASSAYS using Dried Blood Spots (DBS)						
E-GP-192B/ E-GP-480B/ E-GP-2400B	NEONATAL TSH	Thyroid Stimulating Hormone	ELISA	DBS	2 levels	192/ 480/ 2400
E-GQ-192/ E-GQ-1920	NEONATAL 17 OH-P	17 Alpha-Hydroxyprogesterone	ELISA	DBS	2 levels	192/ 1920
E-KR-192/ E-KR-480	NEONATAL IRT	Cystic Fibrosis	ELISA	DBS	2 levels	192/ 480
E-IW-480/ E-IW-1920	NEONATAL PKU	Phenylalanine	ENZYMATIC COLORIMETRIC	DBS	2 levels	480/ 1920
E-IZ-480/ E-IZ-1920	NEONATAL TOTAL GALACTOSE	Total Galactose (Galactose and Galactose-1-Phosphate)	ENZYMATIC COLORIMETRIC	DBS	2 levels	480/ 1920
E-IX-480/ E-IX-1920	NEONATAL G-6-PD	Glucose-6-phosphate dehydrogenase	ENZYMATIC COLORIMETRIC	DBS	2 levels	480/ 1920
E-IY-480/ E-IY-1920	NEONATAL MSUD	Maple Syrup urine disease	ENZYMATIC COLORIMETRIC	DBS	2 levels	480/ 1920
E-KH-480/ E-KH-1920	NEONATAL BTD	Biotinidase Deficiency	ENZYMATIC COLORIMETRIC	DBS	2 levels	480/ 1920

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