

# “Every Child’s Life Matters”



**BornSafe**<sup>TM</sup>  
Microwell Based  
Newborn Screening Tests

**Screening for IEMs can make a difference**

## **Inborn Errors of Metabolisms (IEMs):**

IEMs are rare genetic or, inherited disorders in which some babies are born with certain serious health problems such as physical disability, mental retardation, low growth/development and sometimes even death.



## **IEMs Key Facts**

**More than 500 different Inborn Errors of Metabolisms**

**(IEMs) have been described, most of which are rare conditions.**

### **Globally**

- Recent data shows 140 million babies are born annually worldwide.
- 5 million babies die within the first month in developing countries.
- 25-30% of babies have IEMS.
- Annually, 240,000 newborns die within 28 days from congenital disorders and 170,000 children die between 1 month and 5 years.

### **In India**

- Approximately 25 million babies are born each year.
- The prevalence of IEMS is 1 in 2,497.
- Congenital hypothyroidism: 1 in 22 to 1 in 3,400.
- Congenital adrenal hyperplasia: 1 in 200 to 1 in 6,813.
- Glucose-6-phosphate dehydrogenase deficiency: 0.8% to 17.5%.



**A large number of Inborn Errors of Metabolism (IEMs) in children remain undetected in India due to lack of investigative facilities.**

**Newborn screening can effectively save the baby's life from Inborn Errors of Metabolic Disorders.**

Tulip Introduces

# BornSafe™

Microwell Based  
Newborn Screening Tests

## BornSafe™ Test Parameters

- BornSafe™ TSH
- BornSafe™ 17-OHP
- BornSafe™ G-6PD
- BornSafe™ T.Galactose
- BornSafe™ PKU
- BornSafe™ MSUD
- BornSafe™ Biotinidase



## BornSafe™ Core Points

- Small Pack Size (96T)
- Unique Pack Size (24 x 4)
- Breakable microwells as per requirement
- Sufficient calibrator and control provided



## Key Distinctions:

- BornSafe™ assay kits are **Indian FDA approved and ISO certified**.
- Comprehensive External Clinical Evaluation, exclusively on neonatal population > 3200 samples.
- Absolute Compliance with Lab QMS trend (e.g. CDC-PT).
- BornSafe™ Calibrators & assay kits are validated by CDC samples.
- Excellent correlation to other commercial Colorimetric & Fluorometric assays & CDC target values.
- BornSafe™ assay kits are available in smaller pack size (96T) suitably fitting into the requirements of every diagnostic labs and birthing centre.
- **First of its kind:** Integrated kit components (e.g. Breakable reaction microwells and additional round bottom wells) are supplied along with other assay reagent components without any extra charge.
- Manufactured in India, hence efficient management of supply & logistics across country.

### BornSafe™ NBS Reader

#### Core Points

- Windows based software operating system.
- 5 Filters facility (405,450,492,550 & 630 nm) with additional 3 optional filters.
- Dedicated Q.C Program with West-guard rule.
- All measurement curves are available.
- 100 program locations and unlimited data storage.



### BornSafe™ Orbital Microplate Shaker & Incubator

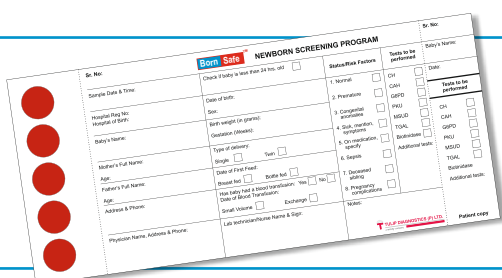
#### Core Points

- Shaker speed up to 999 rpm.
- Four fixed & one customised program in shaker.
- Incubator can be programmed at 37°C for the desired time with an alarm.

### BornSafe™ DBS Puncher

#### Core Points

- Punching diagram 3.2 mm.
- Can be punched directly into microwells.



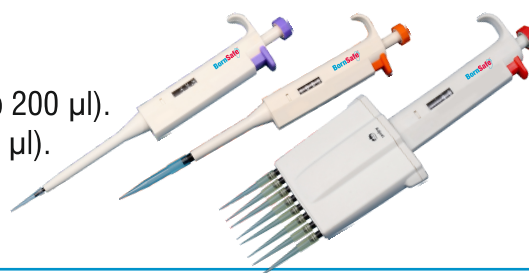
### BornSafe™ DBS Collection Cards

#### Core Points

- High quality Whatman filter paper.
- 5 circles spot in single filter paper.

### Accessories

- BornSafe™ Single Channel Pipette set (100 to 1000 µl) (20 to 200 µl). (2 to 20 µl) & multichannel pipettes (30 to 300 µl) (10 to 100 µl).
- BornSafe™ Universal Reagent Reservoir.



#### Key Distinctions:

**Integrated NBS System :** Reagents & Hardwares (Reader, Shaker, Incubator, Puncher & DBS cards) & Accessories (Pipette Set & URR) are standardized in combination as NBS system ensuring an overall control to keep Analytical & Post Analytical variables at the lowest level possible.

**"Newborn Screening For Healthier Tomorrow"**

ISO 13485  
Certified Company



**T TULIP DIAGNOSTICS (P) LTD.**

For further information contact :

Gitanjali, Tulip Block, Dr. Antonio do Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.  
Tel.: +91 832 2458546-50 Fax : +91 832 2458544 E-mail : sales@tulipgroup.com Website : www.tulipgroup.com