

Early Life Diagnostic

- Prenatology
- Neonatology
- Pediatrics



Early diagnostic for a better life



ZenTech

Mission



Our Company

With headquarters in the Liège Science Park in Belgium, Zentech is a biotechnology company driven by Excellence and highly specialized in the diagnosis of pathologies occurring in the EARLY LIFE stages, from conception to adolescence (foetus, newborn and child) and in the diagnostic of chronic diseases affecting both children and adults

We have considerable expertise in the development, production and marketing of IVD diagnostic kits specifically developed for pediatric use in fetuses, newborns, infants as well as their mothers and adapted to the requirements of non-invasive and rapid assays. This specialization is further enhanced by competence in rapid diagnostic testing for the Point-of-Care market and for population screening as well as in the automation of the medical diagnostic laboratory processes.

Those high qualities products are marketed either directly or through distributors and OEM agreements worldwide.

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Prenatology



Maternal Blood Screening

For Down's Syndrome, Edward's Syndrome and neural tube defects



Prenatal diagnosis of Down's Syndrome and other chromosomal abnormalities is based on foetal karyotyping. Because of cost and risks associated with amniocentesis, karyotyping is restricted to patients at increased risk. Maternal age, maternal biochemical markers and ultrasound findings are recognised as useful criteria for antenatal screening. They are used alone or preferentially in combination. Choosing markers for multiple parameters screening has been introduced using a statistical methodology that has been accepted and empirically validated.

Zentech proposes a complete program for antenatal screening including Elisa kits and a software especially devised for the risk evaluation of Down's syndrome, (Trisomy 21), Edward's syndrome (Trisomy 18) and neural tube defect (NTDs) during the first and second trimester of pregnancy.

Reference Code	Product Name	Intended Use	Method	Sample type	Controls included	Tests /Kit
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FIRST TRIMESTER OF PREGNANCY (9th to 13th gestational week)

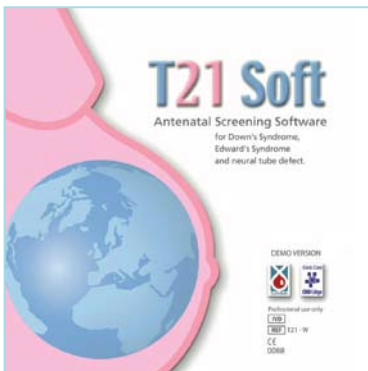
E-GW-96	FREE β-hCG*	Free beta subunit of the Human Chorionic Gonadotropin	ELISA	Serum	2 levels	96
E-GS-96	PAPP-A	Pregnancy associated Plasma Protein-A	ELISA	Serum	2 levels	96

SECOND TRIMESTER OF PREGNANCY (14th to 24th gestational week)

E-GT-96	AFP	Alpha-fetoprotein	ELISA	Serum	2 levels	96
E-GV-96	TOTAL hCG	Total Human Chorionic Gonadotropin	ELISA	Serum	2 levels	96
E-GU-96	FREE ESTRDIOL	Unconjugated Estriol (uE3)	ELISA	Serum	2 levels	96

Antenatal Screening Software

Calculating the risk using T21 Soft



T21 Soft is designed to work in combination with any analytical system suitable for the quantitative measurement of the biochemical parameters AFP, Free β -hCG, Total HCG, Free E3 and PAPP-A during the gestational period ranging from week 9 to 24. The reference database is based on the medians obtained from a normal population depending on the assay reagents used.



H-HY-000	T21 SOFT*	Antenatal screening software for Down's syndrome, Edward's syndrome and neural tube defect	CD-ROM
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* The Free- β hCG kit has not received CE mark for Down's syndrome screening. This assay is not available for Down's Syndrome screening in the following countries: Austria, Belgium, Switzerland, Germany, Denmark, Spain, France, The United Kingdom, Italy, Liechtenstein, Luxemburg, The Netherlands, Sweden, Japan, Australia and the United States of America.

Neonatology



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 onto 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)

Reference Code	Product Name	Intended Use	Method	Sample type	Controls included	Tests /Kit
E-GP-192A/ E-GP-480/ E-GP-2400	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-HN-500/ E-HN-2000	PKU	Phenylalanine	ENZYMATIC COLORIMETRIC	DBS	2 levels	500/ 2000
E-HQ-500/ E-HQ-2000	TOTAL GALACTOSE	Total Galactose (Galactose and Galactose-1-Phosphate)	ENZYMATIC COLORIMETRIC	DBS	2 levels	500/ 2000
E-HO-100/ E-HO-2000	G-6-PD 340nm	Glucose-6-phosphate dehydrogenase	ENZYMATIC COLORIMETRIC	DBS	-	100/ 2000
E-IT-500	G-6-PD 340nm (including 3 controls)	Glucose-6-phosphate dehydrogenase	ENZYMATIC COLORIMETRIC	DBS	3 levels	500
E-IL-2000	G-6-PD 550nm	Glucose-6-phosphate dehydrogenase	ENZYMATIC COLORIMETRIC	DBS	-	2000
E-HP-500/ E-HP-2000	MSUD	Maple Syrup urine disease	ENZYMATIC COLORIMETRIC	DBS	2 levels	500/ 2000

SCREENING ASSAYS using Dried Blood Spots (DBS)



Diagnostics products adapted to children

Because children are not adults in miniature

The world's population of children aged 0 to 14 years is 1.811 billion. This important proportion representing 27% of the human population does not have access to therapies and diagnoses specifically adapted to their physiology.

Zentech's vision is to come up with adapted In Vitro Diagnostic solutions using less or non-invasive sampling methods, and to provide a wide range of diagnostic pediatrics products by developing adult kits in formats specifically adapted to children.



Reference Code	Product Name	Intended Use	Method	Sample type	Controls included	Tests /Kit
IMMUNE SYSTEM DEFICIENCY & INFECTIOUS DISEASES						
E-DG-96	ELIZEN Pneumococcus IgG	IgG anti-pneumococcus in human serum and in preparation of immunoglobulins	ELISA	Serum	1 level	96
S-GZ-1/ S-GZ-20B/ S-GZ-40B	TETANOS QUICK STICK (TQS)	Rapid test for the detection of anti-tetanus antibodies	RAPID TEST	Whole blood - Serum - Plasma	-	1/ 20/ 40
S-HA-20	ROTASTICK	Rapid test for the detection of Rotavirus	RAPID TEST	Faeces	-	20
S-HC-20	ROT-ADENO QUICK STICK	Rapid test for the detection of Rotavirus and Adenovirus	RAPID TEST	Faeces	-	20

ALLERGY IgE

M-ED-96	ALLERGYZEN IgE Total	Total IgE in pediatrics and neonatal subjects	ELISA	Serum - Plasma	1 level	96
M-EF-96	ALLERGYZEN IgE Specific (Basic set)	Specific IgE in pediatrics and neonatal subjects	ELISA	Serum - Plasma	-	96
M-EG-96	ALLERGYZEN IgE Specific (Reference Set)	Specific IgE in pediatrics and neonatal subjects	ELISA	Serum - Plasma	-	96
M-EH-XX	ALLERGYZEN Specific allergens	Biotinylated allergens (see complete list in product catalog)	ELISA	-	-	-

FOOD INTOLERANCE IgG

P-GJ-96	FOODZEN IgG Specific	IgG antibodies to food antigens	ELISA	Serum	3 levels	96
P-GL-XX	FOODZEN Specific Antigens	Food biotinylated antigens (see complete list in product catalog)	ELISA	-	-	-

JOINTS

E-IE-96	COLLAZEN Coll2-1 EIA	Type II collagen peptide fragments coll2-1 in cartilage destruction	ELISA	-	-	96
E-IG-96	COLLAZEN Coll2-1 NO2 EIA	Type II collagen peptide fragments coll2-1 nitrated in cartilage destruction	ELISA	-	-	96

INFLAMMATION

E-HB-96	ELIZEN MPO	Human myeloperoxidase	ELISA	EDTA plasma	2 levels	96
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TYPE-1 & 2 DIABETES

E-BX-96	ELIZEN Proinsulin	Intact Proinsulin	ELISA	Serum - Plasma	2 levels	96
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