Confidence in your results.



revvity

DELFIA® Xpress
Random access platform for prenatal screening

Supporting healthier pregnancies



Dedicated random access prenatal screening platform from the world leader in prenatal testing

DELFIA® Xpress streamlines workflows in laboratories and clinics providing prenatal screening services. Already in use in more than 50 countries, DELFIA® Xpress offers a range of benefits critical for operational efficiency.

- The speed and flexibility of random access
- Simplicity and ease of use with up-to-date software design
- The security associated with barcoded reagents and samples to ensure positive identification
- The reassurance from using reliable, proven DELFIA chemistry
- Smart connectivity to Revvity's clinically validated LifeCycle™ prenatal screening software with MFH risk calculation engine and statistical analysis tool
- The flexibility to support connections to 3rd party software such as Viewpoint and Astraia

Leaders in prenatal screening for over 30 years

Revvity provides state-of-the-art solutions to benefit maternal and fetal health. Our solutions comprise instruments, reagents and screening management software, all based on our broad-ranging expertise and understanding of today's needs.

We are the global leader in products for detecting fetal anomalies during pregnancy, and our platforms are used in more than 50 countries to perform some 10 million prenatal risk assessments per year. DELFIA® Xpress has become the platform of choice in many parts of the world.

The Fetal Medicine Foundation

The DELFIA® Xpress instrument and first trimester assays for Free hCGb, PAPP-A, AFP and PlGF are approved by the Fetal Medicine Foundation (FMF).

Speed and flexibility of random access



Streamlined workflows for operational efficiency to support aneuploidy and pre-eclampsia screening

DELFIA® Xpress supports 1st and 2nd trimester aneuploidy screening strategies being implemented in today's screening programs. The instrument is also optimized for pre-eclampsia screening and management in all trimesters with PlGF and sFlt-1 markers. The instrument is equally at home in clinics and in laboratories. It also provides an ideal solution for delivering OSCAR (one stop clinic for assessment of risk) services, and has been chosen by several programs.

Total flexibility to handle the workload

DELFIA® Xpress provides all the benefits of a random access system. You can load multiple samples in one go or you can load individual samples as soon as they arrive for testing. The instrument takes 30 minutes to process a patient sample, and generates results at a rate of 40 per hour. The STAT capability provides total flexibility in the handling of patient samples, with the ability to introduce samples as priority if desired. From an operator point of view, all that is required to interrupt a run is to press the start/pause button, and the instrument's "traffic lights" indicate when the STAT sample can be loaded.

Security with positive identification

All kit contents as well as kit lot information are barcoded and DELFIA® Xpress instrument reads the information automatically. Specimen tubes, if they are barcoded, are also read within the instrument. All this minimizes human errors and provides additional security.

Saves space in the laboratory or clinic

Many instruments compete for space in today's modern laboratories. DELFIA® Xpress is a bench-top instrument that maximizes performance with a footprint of only 85 x 55 cm. Operation of the instrument is handled through the PC based workstation software, designed to facilitate easy navigation.

Reliability of DELFIA® chemistry

The reliable clinical performance of DELFIA® Xpress assays owes much to the well-established, superior DELFIA chemistry employed by the system. DELFIA reagents are widely used in research, drug discovery, neonatal and prenatal screening, and diagnostics.

Easy to use system from sample to results



Logical and straightforward

Simply load samples, scan and press the start/pause button. Patient results are ready in 30 minutes. Daily maintenance is equally straightforward. Routine activities include emptying waste, refilling bulk reagents bottles and loading replacement kit components. When taking a new kit lot into use, all kit lot information is rapidly input using the system's bar code reader.

Assay-specific kits

Each DELFIA® Xpress kit contains all of the assay-specific reagents needed including pens, buffer, reagent and calibrators. Each pen contains 12 cups in which the immunoassay is carried out. All the kit components are barcoded and can be loaded directly into the instrument.

The assay-specific reagents come in easy-to-store packs with sufficient contents for 96 tests. To support lower throughput needs, smaller 72-test packs are also available (for sFlt-1 and PlGF 48 test packs).

Bulk reagents for convenient work processes

For general convenience, reagents required for all assays are supplied in bulk. The status of reagents and samples loaded in the instrument, can be checked real-time through the inventory module of the DELFIA® Xpress workstation software.

Flexibility in sample handling

Five sample racks, holding 6 samples each, form a sample carousel. These can hold a variety of tube types with inner diameter 8–16 mm and height 45–100 mm.

Easy to perform calibrations

Calibration is just as automatic as the processing of samples. A sixpoint calibration is performed every time a new kit lot is taken into use. Subsequent calibrations may then be run periodically using just two calibrators. Barcoded calibrators are supplied with every kit.

Intuitive DELFIA® Xpress Workstation software

DELFIA® Xpress Workstation software is used for all operations, including calibration, running assays, QC functions, inventory and maintenance. DELFIA® Xpress Workstation is easy and intuitive, with the overall look and feel of a Microsoft Windows-based program.

Quality and versatility – important factors of any screening program



Quality control for monitoring assay performance

A valuable feature of DELFIA® Xpress workstation software is its dedicated quality control module, which provides considerable flexibility in monitoring assay performance. You can create the control materials and select the analytes to be measured with them. Multirule, target value and expected standard deviation can be set separately for each control level. Westgard rules are provided as standard, however, customised rules may be used as well, or instead of the default. The target values and expected standard deviations can be based on the actual measurements or set by the user.

The QC program has a similar visual structure to that of the DELFIA® Xpress Workstation software. It supports various plot options to allow easy monitoring of the controls.

Once measured, the control results will be sent automatically to the QC Program, where they can be viewed as a Levey-Jennings plot, in Histogram view or in numerical Grid view. The results can easily be printed or saved as a pdf-file.

Trimesters and markers

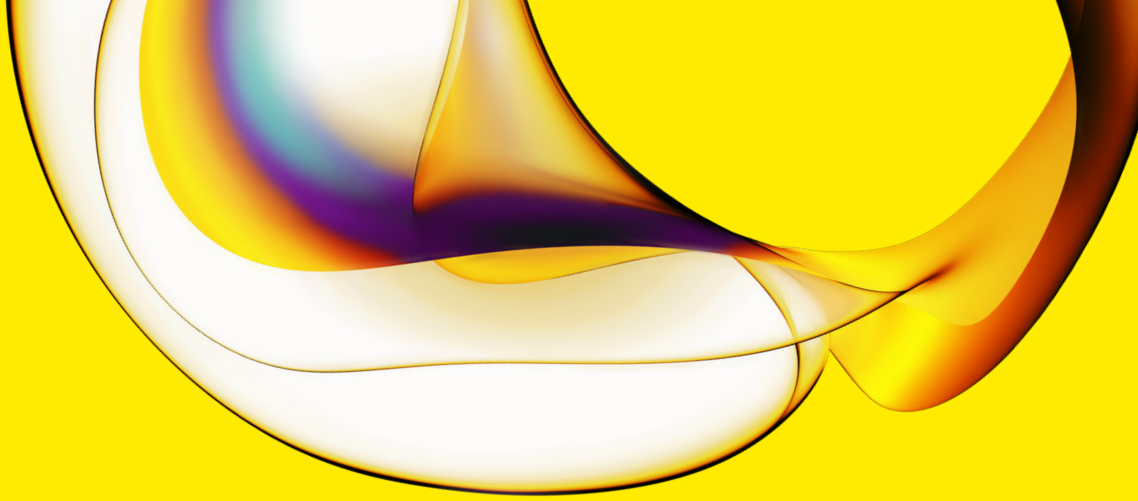
1st Trimerster	2nd Trimerster	3rd Trimerster
Aneuploidy screening		
▪ PAPP-A ▪ Free hCGβ ▪ hAFP ▪ PlGF	▪ Free hCGβ ▪ hCG ▪ hAFP ▪ uE3	
Neural tube defect screening		
	▪ hAFP	
Pre-eclampsia screening and management		
▪ PlGF ▪ PAPP-A	▪ PlGF ▪ sFlt-1	▪ PlGF ▪ sFlt-1

Controls

- SERO Maternal Health Control Early (PAPP-A, Free hCGβ)
- PlGF Controls
- sFlt-1 Controls

Specifications

- Throughput 40 tests per hour
- Process time 30 minutes per test
- Sample volume 10 or 15 µL per test (or 40 µL per test for PlGF)
- Sample dilution as pre-assay stage, automatically within instrument
- Kit capacity 96 tests or 72 tests (PlGF & sFlt-1 48 tests)
- Bulk reagents capacity 180–250 tests
- Dimensions (instrument): height 66 cm x depth 55 cm x width 85 cm
- Weight (instrument) 65 kg
- Power requirement 100/240 +/- 10% V, 50/60 Hz



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Please note that product labeling (such as kit insert, product label, and kit box) may be different compared to the company branding. Please contact your local representative for further details.

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