



**NEONATA IRT FEIA**

## Newborn screening of Cystic Fibrosis

- Fluorometric enzyme immunoassay for the determination of human immunoreactive trypsinogen from blood samples dried on filter paper.
- Fluorescence detection for high sensitivity
- Proven clinical performance
- Compatible with Labsystems Diagnostics NS2400/1200 automation system

## About

Cystic Fibrosis (CF) is an autosomal recessive disorder affecting the lungs, pancreas, intestine and liver. CF is the most common in Caucasians with an incidence rate 1:2500 newborns. CF is caused by mutation in the gene for the protein cystic fibrosis transmembrane conductance regulator (CTFR). Large-scale neonatal screening for CF is performed by identification of increased levels of immunoreactive trypsinogen (IRT) from dried blood spot samples.

Trypsinogen is the precursor of the pancreatic enzyme, trypsin, and specific marker of pancreatic function. Neonatal IRT FEIA is a solid phase fluorometric enzyme immunoassay in which IRT is eluted from dried blood disks. It simultaneously forms a sandwich between the solid phase, coated with an antibody that recognizes Trypsinogen and a second antibody, which is labeled with horseradish peroxidase (HRP). Fluorogenic substrate solution (3-p-(hydroxyphenyl)propionic acid, HPPA, and H<sub>2</sub>O<sub>2</sub>) is added to complete the fluorescence reaction.

## Assay procedure:

### STEP I

Punch 3 mm disks from patient samples and calibrators & controls into the microplate wells.

### STEP II

Add conjugate solution. Cover the plate and incubate 3 hours with shaking.

### STEP III

Wash the plate.

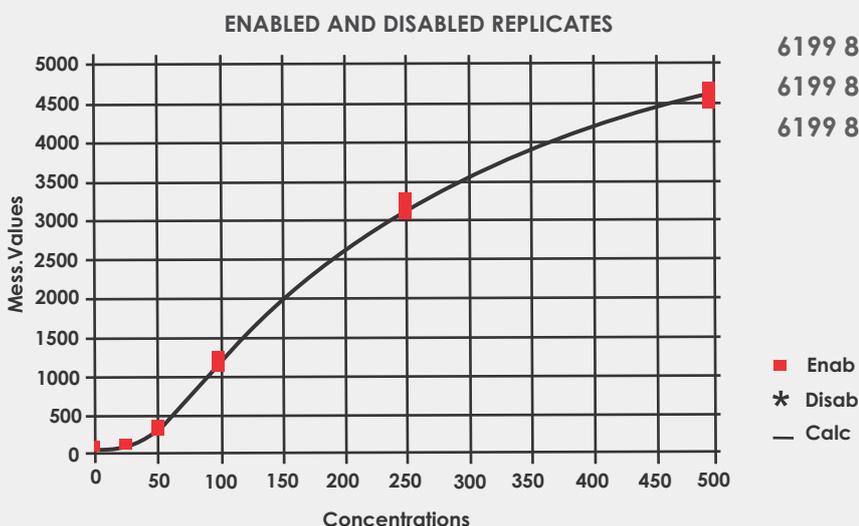
### STEP IV

Add Substrate solution. Cover the plate and incubate 60 min with shaking.

### STEP V

Add Stop solution. Measure immediately fluorescence at ex. 320, em. 405 nm

## Typical calibration curve:



## Product Info:

- 6199 830, Grade 903, 5 strip plates (12x8), 480 wells
- 6199 831, Grade 903, 10 solid plates (1x96), 960 wells
- 6199 832, Grade 903, 10 strip plates (12x8), 960 wells

## Labsystems Diagnostics Oy

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\*Please note: Product specifications are subject to change without prior notice owing to product modifications, improvements / up-gradation.