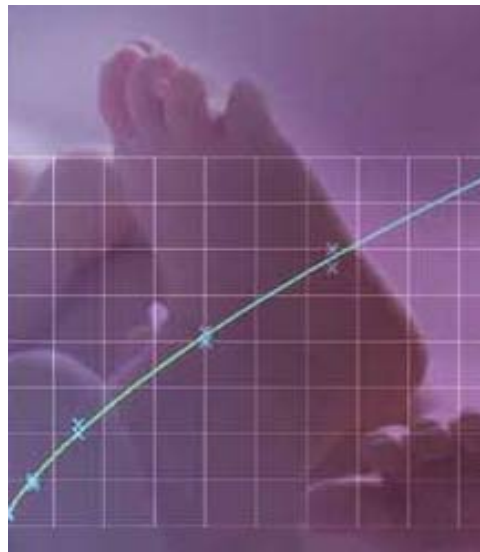


# Neonatal Screening Tests



Ani Labsystems' range of neonatal screening tests offer rapid and reliable assays for testing

- phenylketonuria (PKU)
- congenital hypothyroidism (CH)
- congenital toxoplasmosis (CT)
- glucose-6-phosphate dehydrogenase **NEW**
- galactosemia (available Q4/2008) **NEW**
- 17 -OH-Progesterone **NEW**

PKU and TSH tests are calibrated against the latest international references

# Quantitative and reliable results with Ani Labsystems' Neonatal Screening Tests

## Neonatal Phenylalanine

A chemical phenylalanine screening test with quantitative fluorometric detection. Excellent analytical sensitivity over the conventional semi-quantitative bacterial inhibition assay. Calibrated against international reference preparations (1)

### Phenylalanine test procedure

Punch 3 mm sample disks, add 80 µl eluent

Incubate 30 min at RT on a shaker

Transfer 50 µl eluate, add 50 µl incubation mixture.

Incubate

**A)** 1 h at 60 °C or **B)** 2 h at 37 °C

Add 200 µl copper reagent

Incubate 15 min at RT

Measure at ex. 390 nm, em. 485 nm

## Neonatal thyrotropin (TSH) test

Reliable screening of congenital hypothyroidism. Kit with either fluorometric or photometric detection available. Calibrated against international reference preparations (2)

### TSH FEIA Plus procedure

Punch 3 mm sample disks, add 150 µl conjugate

Incubate

**A)** 2 h at RT shaking or **B)** 15 min at RT shaking and O/N at +4 °C

Remove disks, Wash

Add 100 µl substrate

Incubate 1 h at RT on a shaker

Add 100 µl stop solution

Measure at ex. 320 nm, em. 405 nm

## Toxoplasma gondii IgM FEIA

First semi-quantitative fluorometric test on the market to measure newborns' IgM antibodies from dried blood spot samples to detect congenital toxoplasmosis.

### Toxoplasma test procedure

Punch 3 mm sample disks, add 150 µl anti-human IgM antibody

Incubate

**A)** 30 min at RT shaking or **B)** 15 min at RT shaking and O/N at +4 °C

Remove disks, Wash

Add 150 µl antigen-conjugate

Incubate 1 h at RT shaking, Wash

Add 150 µl substrate

Incubate 30 min at RT shaking

Add 50 µl stop solution

Measure at ex. 320 nm, em. 405 nm

## Ordering Information, kits

6199 896	Neonatal Phenylalanine	10 x 96 = 960 wells	CE-marked
6199 897	Neonatal Phenylalanine	50 x 96 = 4800 wells	CE-marked
6199 880	Neonatal hTSH FEIA Plus	10 x 96 = 960 wells	CE-marked
6199 881	Neonatal hTSH FEIA Plus	50 x 96 = 4800 wells	CE-marked
6199 892	Neonatal hTSH EIA	10 x 96 = 960 wells	CE-marked
6199 8923	Neonatal hTSH EIA	50 x 96 = 4800 wells	CE-marked
6199 802	Neonatal Toxoplasma gondii IgM FEIA	5 x 96 = 480 wells	CE-marked
6199 804	Neonatal Toxoplasma gondii IgM EIA	5 x 96 = 480 wells	

## Ordering Information, additional reagents

6190 930	Neonatal Phenylalanine Controls	5 sets of 3 levels	CE-marked
6190 940	Neonatal Phenylalanine Calibrators	5 sets of 5 levels	CE-marked

## Available through us also additional equipment for neonatal screening from Thermo Electron:

- Microplate fluorometer Fluoroskan Ascent Neonatal (100-240V) cat. no. 5210530
- Microplate photometer Multiskan EX (200-240 V) cat. no. 51118170
- Microplate iEMS Incubator/Shaker with 9 thermal microplate holders, temp. range: RT – +40°C (cat.no. 5112 200) or iEMS Incubator/Shaker HT, with 3 thermal microplate holders, temp. +14°C – +69°C (cat. no. 5112250)
- Microplate washer Wellwash 4 Mk 2 (cat. no. 516 0770)
- Woodpecker disk processor to punch disks (cat. no. 5600 200 ) and disposable disk holders (100 pcs, cat. no. 9700300X)
- Dispenser Multidrop 384 (cat. no. 584 0150)

Schleicher & Schuell 903 filter paper is used in all products

- 1) the European Working Standard for Phenylalanine (EWS-Phe) since 1996 and the 1st ISNS Reference Preparation for Neonatal Screening for TSH, phenylalanine and 17 α-hydroxyprogesterone in blood spots since 2005
- 2) the WHO 3rd International Standard (81/565) of hTSH and since 2005 1st ISNS Reference preparation for Neonatal Screening for TSH, phenylalanine and 17 α-hydroxyprogesterone in blood spots