



Newborn screening of Galactosemia

**Fluorometric determination of total galactose from blood
specimens dried on filter paper**

- Enzymatic assay for total galactose
 - Excellent reproducibility
 - Stable reagents and long shelf life
- Compatible with current screening systems

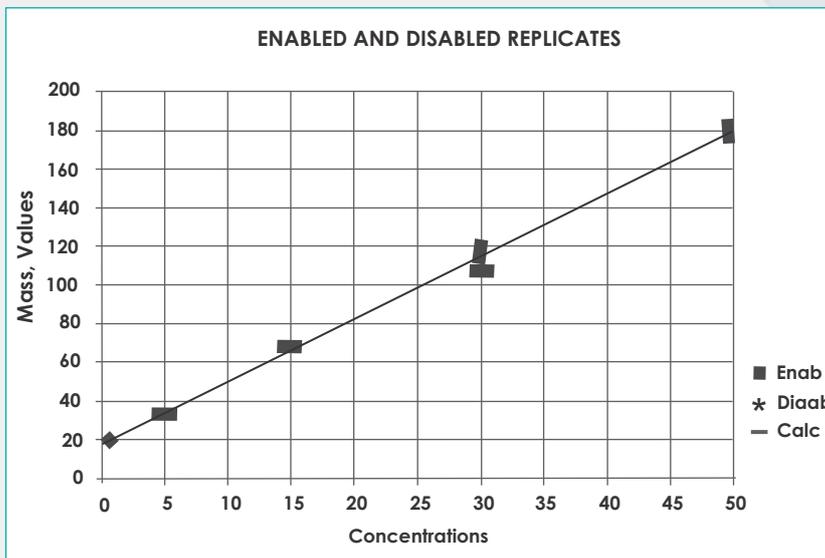
Neonatal Galactose

PRINCIPLE OF THE TEST

The determination is based on two reactions. In the first re-action alkaline phosphatase cleaves galactose from galac- tose-1-phosphate. In the sec- ond reaction galactose serves as a substrate for galactose dehydrogenase which reduces nicotinamidedinucleotide to form a fluorogenic product. Fluorescence intensity of the re- action is therefore proportional to the amount of galactose in the sample.



Abbreviations
AFOS = alkaline phosphatase
GDH = galactose dehydrogenase
NAD = b-Nicotinamide adenine dinucleotide



Assay Procedure

1. Punch out 3 mm disks containing blood calibrators and controls in duplicates into the microtiter plate.
2. Punch out single 3 mm disks from patient specimens into microplate wells.
3. Add 20 ml of 80% ethanol into each well, incubate 60 minutes at +37°C, do not cover the plate.
4. Prepare the reaction mix just before use.
5. Add 200 ml of reaction mix into each well. Make sure that THE DISCS ARE COMPLETELY SOAKED IN THE LIQUID BEFORE INCUBATION

Typical calibration curve of neonatal galactose

Cat.no.	Product name	Plate type	Packing size	Regulatory status
6199850	Neonatal Galactose, fluorometric test	96-well solid	480 wells	CE marked
6199851	Neonatal PKU, fluorometric test	96-well solid	960 wells	CE marked

Type 903 filter paper is used in all products.

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