

**Bio-Rad Laboratories**  
Results that improve lives.

# Galactosemia

## Quantase™ Neonatal TGAL & Neonatal GALT Assays

### Newborn Screeners Are Talking

*"In my opinion, quality  
is the most important  
feature of any product."*

### Bio-Rad Is Listening

Quantase™ newborn screening assays demonstrate our commitment to quality. We manufacture under the most stringent standards to provide the performance and reproducibility that you demand. Bio-Rad's quality gives you confidence in your results.

### The Bio-Rad Assay

- Not subject to the interferences commonly observed with fluorescent and bacterial inhibition methods
- Simplified protocols can be used on most plate readers
- Rapid results in under 2 hours (Total Galactose) and 3.5 hours (GALT)

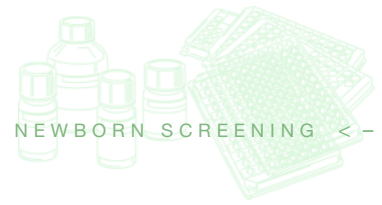
### Galactosemia Assay

Bio-Rad Quantase™ offers a complete package for galactosemia testing. Whether screening with Total Galactose or with GALT (transferase), Bio-Rad provides results you can have confidence in.



Quantase Neonatal  
GALT Assay Kit

**BIO-RAD**



# Galactosemia Assays

## Clinical Background

Galactosemia is an inherited disorder of galactose metabolism, caused by a deficiency in one of three enzymes, the most important being galactose-1-phosphate uridyl transferase. Galactosemia may also be caused by a lack of galactokinase or UDP-galactose-4-epimerase activity.

Long-term consequences of galactosemia include mental retardation, developmental abnormalities, and even death. The worldwide prevalence of galactosemia is estimated to be 1:60,000-1:80,000.

The Quantase™ Neonatal Total Galactose Screening Assay is an enzymatic colorimetric end-point method for the determination of total D(+) galactose in dried-blood spot specimens.

The Quantase™ Neonatal GALT Assay measures galactose-1-phosphate uridyl transferase activity in neonatal dried-blood spots to screen for galactosemia.

## Product Highlights

- Cost effective
- Easily automated
- Environmentally friendly, no flammables
- Rapid procedure

## Flexibility for Your Laboratory Needs

### Total Galactose

- 1 Punch sample
- 2 Add 60  $\mu$ L elution reagent
- 3 Incubate at RT for 30 minutes
- 4 Add 100  $\mu$ L enzyme reagent
- 5 Incubate at RT for 30 minutes
- 6 Add 100  $\mu$ L color reagent
- 7 Incubate at RT for 2 minutes
- 8 Read 570 nm and 690 nm

### GALT (Transferase)

- 1 Punch sample
- 2 Add 200  $\mu$ L elution reagent
- 3 Incubate at 37°C for 3 hours
- 4 Transfer 120  $\mu$ L
- 5 Read 550 nm or 570 nm
- 6 Add 50  $\mu$ L enzyme reagent
- 7 Incubate at 37°C for 10 minutes
- 8 Read 550 nm or 570 nm

## Ordering Information

Catalog No.	Description	
532-6000	Quantase™ Neonatal GALT Assay	192 test kit
532-6001	Quantase™ Neonatal GALT Assay	960 test kit
532-6002	Quantase™ Neonatal GALT Assay	controls, bi-level
532-6054	Quantase™ Neonatal Total Galactose Assay (S&S 903 paper)	500 test kit
532-6050	Quantase™ Neonatal Total Galactose Assay (S&S 903 paper)	2000 test kit
532-6053	Quantase™ Neonatal Total Galactose Assay (S&S 2992 paper)	500 test kit
532-6049	Quantase™ Neonatal Total Galactose Assay (S&S 2992 paper)	2000 test kit
532-5036	Quantase™ Accessory Kit 1, elution buffer, assay plates, filter plates	2000 test kit
532-5037	Quantase™ Accessory Kit 2, elution buffer, assay plates	2000 test kit
532-5038	Quantase™ Accessory Kit 3, filter plates	2000 test kit
532-5039	Quantase™ Accessory Kit 4, assay plates	2000 test kit
532-5040	Quantase™ Accessory Kit 5, elution buffer	2000 test kit
532-5025	Vacuum Manifold System	1 unit

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For further information, please contact the Bio-Rad office nearest you or visit our website at [www.bio-rad.com](http://www.bio-rad.com).

Clinical  
Diagnostics Group

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