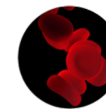


In Vivo Micronucleus Analysis

Measuring DNA Damage in Red Blood Cells



The Micronucleus Test

Exposure to a test substance can result in damage to the chromosomes or spindle apparatus of cells. During routine cell division, this type of damage can create a smaller 'micro'-nucleus, apart from the main nucleus. When red blood cells mature the main nucleus is expelled. Micronuclei remain behind and can easily be seen in a cell with no other DNA. This makes red blood cells ideal for measuring this endpoint.

MicroFlow Kits

In Vivo MicroFlow kits use flow cytometry to quickly and reproducibly measure micronuclei. Whether you prefer shipping samples to us, or analyzing them yourself with your own in-house flow cytometer, we have a solution for you.



FEATURES

- **Gold Standard Method**
A large number of chemicals has been evaluated with this internationally validated method.
- **Flow Cytometry**
Fast, reproducible results that take advantage of laser-based technologies.
- **Includes Calibration Standards**
Malaria Biostandards, with Positive and Negative Controls, ensure proper flow cytometric setup.
- **QC'd Kits, Unlimited Technical Support**
Everything you need to successfully perform the method is included in the box or available for download!

BENEFITS

- **Accepted by Regulatory Agencies**
GLP studies can be performed either at your facility or using Litron's experienced scientists.
- **Complete More Studies in Less Time**
Routinely score 20,000 cells per sample and analyze an entire study in one day!
- **Provides Reproducible Data**
Calibration standards ensure confidence in your results across days and between laboratories.
- **Feel Confident**
Speak with the scientists who developed this method. Send plots, email, or call with questions!

SPECIES AND COMPARTMENTS

- Mouse or Rat
- Blood or Bone Marrow
- For others species, please inquire

ADVANTAGES OF PERIPHERAL BLOOD

- Allows each subject to be sampled multiple times
- Easily integrates into existing toxicology studies
- Requires very low sample volumes
- Reduces the number of animals in your studies