

In Vitro Micronucleus Analysis

Measuring DNA Damage in Cell Cultures

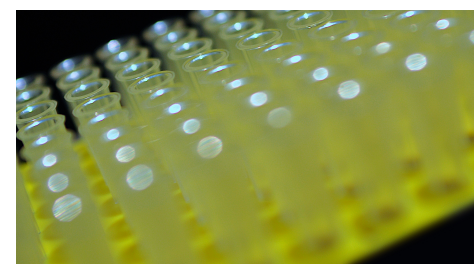
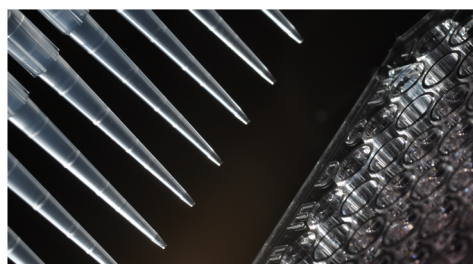


The Micronucleus Test

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.

MicroFlow Kits

In Vitro MicroFlow kits use flow cytometry to quickly and reproducibly measure micronuclei. The key element of this method is the sequential staining. One staining step identifies dead and dying cells. The second step lyses cells and stains DNA. This approach allows you to distinguish micronuclei from other events, such as apoptotic bodies.



FEATURES

- **Automated Scoring by Flow Cytometry**
Templates and example data are provided.
- **Compatible with Many Cell Lines**
With CHO-K1 cells, obtain frequency of hypodiploid nuclei.
- **Miniaturized Format**
Compatible with 96 well plates, as well as auto-samplers and robotics.
- **QC'd Kits, Unlimited Technical Support**
Everything you need to successfully perform the method is included in the box or available for download!

BENEFITS

- **Reliable and Reproducible Data**
Reduce errors and get objective results you can trust.
- **Detects Multiple Modes of Action**
Determine if your compounds are aneugenic or clastogenic.
- **Reduces Time & Compound Requirements**
Hundreds of samples analyzed in a few hours. Eliminates tech time with "walk away" analysis.
- **Feel Confident**
Speak with the scientists who developed this method. Send plots, email, or call with questions!

ATTACHMENT OR SUSPENSION CELLS

- L5178Y
- CHO-K1
- TK6
- V79
- WIL-2
- HEPG2

HIGH CONTENT ANALYSIS

- Mode of Action
- Cell cycle
- Relative Survival
- Membrane integrity