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TM
NuCycl DAPI Kit Summary Factsheet
Cat.#10 -05-16313:50Test

NUCYCL DAPI KIT CONTENTS:

1. Vial containing 50 ml of NuCycl DAPI -50 Tests
2. 2.50 NuCycl Sample Preparation Filters -50 Filters
3. 3.1 vial NuCycl DNA Standard -5 Tests
4. 4.1 Instruction Manual -1 manual

Materials Required But Not Provided By Biocarta:

Materials needed for *Biocarta's* NuCycl DAPI:

- Flow Cytometry Instrument or DNA Analyzer
- Test Tubes compatible with Instrument or Analyzer
- Calibrated Liquid handling device or pipette capable of accurately delivering 1 ml of
- NuCycl reagent to samples and standards.

Fluorescence Information and Equipment Specifications:

NuCycl DAPI

- Excites at 365 nm
- Emits at 420 -470 nm

Assay Procedure:

NuCycl DAPI (4',6'-diamidino-2-phenylindole -2-HCl) -DNA specific stain procedure. NuCycl DAPI allows the rapid isolation of nuclei from cells and tissues. NuCycl DAPI stains only DNA and DOES NOT stain RNA.

Assay Procedure : The following procedure is recommended for the preparation of cells or tissues for DNA Flow Cytometry. Set instrument or analyzer for DNA/RNA analysis. See instrument manufacturers instructions for proper DNA/RNA procedure.

Note: *Biocarta* recommends that the NuCycl Sample Preparation filters be used for the preparation of all samples and standards to be run. NuCycl Sample Preparation Filters remove background noise and allow for tighter CV's and hence better sensitivity than would otherwise be possible.

Fresh or Frozen Tissue Procedure

1. Fresh or frozen tissues are trimmed to remove necrotic or normal tissue components, e.g. fat, connective components, etc.
2. Tissues are teased with two small blades (No. 10) scalpels in a small petri dish (35 -50 mm diameter) with NuCycl DAPI at a relative concentration of 2 -3 mm³ tissue/one ml of NuCycl DAPI. Tissue samples as small as 2 mm in diameter may be used with 1 ml of NuCycl DAPI.

3. After a minimum of 30 seconds of incubation at room temperature, the samples are pipetted into a test tube and stored on ice.
4. The stained nuclei and debris are separated from each other using the specially designed funnel filter provided. Place a test tube or sample cup on ice in which the nuclear suspension is to be collected. Place the funnel filter into the test tube of sample cup while still on ice and add the sample to the top portion of the funnel. Collect the stained sample in the test tube or sample cup and store on ice. **Note:** It is essential that *Biocarta's* specially designed funnel filters be used for all applications in order to achieve optimal results.
5. The sample is now ready for immediate DNA flow cytometric analysis.

Kit Storage and Expiration Dating:

NuCycl DAPI should be stored at 4 -8 °C.

References:

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