

Materials List for

Differential Nuclear Staining Assay: An Assay to Determine Mitocan Cytotoxicity by Propidium Iodide and Hoechst Double Staining

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Materials

| Name | Company | Catalog Number | Comments |
|---|-----------------|----------------|--|
| 2-Deoxy-D-glucose/2-DG | Chem-Impex | 50-519-067 | |
| 3-bromo-pyruvate | Alfa Aesar | 1113-59-3 | |
| 96-Well plates | Greiner Bio-One | 655090 | Black or clear flat-bottomed 96-well plates |
| Countess II automated cell counter | Thermo Fisher | | |
| Cytation 5 Cell Imaging Multi-Mode Reader | BioTek | | |
| Hoechst 33342 | Thermo Fisher | 62249 | 20 mM solution; final concentration 1:1,000 |
| HyClone fetal bovine serum | GE Healthcare | #25-514 | |
| m-chlorophenylhydrazone/CCCP | Sigma Aldrich | C2759 | |
| PBS tablets | Thermo Fisher | BP2944100 | 1 tablet + 200 mL of sterile water = 1x PBS solution |
| Penicillin-Streptomycin-Glutamine (100X) | Gibco | 10378016 | |
| Propidium Iodide | Thermo Fisher | 50-596-072 | Dry powder; stock 1 mg/mL in PBS; final concentration 5 µg/mL (leukemia cells), 1 µg/mL (normal PBMCs) |
| Rotenone | Ark Pharm | AK115691 | |
| RPMI-1640 Medium With L-glutamine and sodium bicarbonate, liquid, sterile-filtered, suitable for cell culture | Sigma Aldrich | R8758-500ML | |
| Trypan blue stain (0.4%) | Gibco | 15250-061 | |
| Cell lines | | | |
| K562 | ATCC | CCL-243 | CML cell line |
| MOLM-13 | ATCC | | AML cell line |
| MOLT-4 | ATCC | CRL-1582 | ALL cell line |
| OCI-AML2 | ATCC | | AML cell line |