Mimetix® Protocol: Cell Viability Assays

CellTiter Blue assay

1. Add 10 µl of CellTiter Blue reagent per well of a 96-well plate.
2. Incubate for 90 minutes at 37˚C.
3. Place plate into plate reader and shake vigorously for several seconds.
4. Measure fluorescence at 580-620 nm (excite at 530-570 nm) according to the manufacturer's instructions.

- Please note: The Mimetix scaffold does not cause background fluorescence.

CellTiter Glo assay

1. Add 100 µl of CellTiter Glo reagent per well of a 96-well plate.
2. Incubate for 10 minutes at 37˚C.
3. Place plate into plate reader and shake vigorously for several seconds.
4. Measure luminescence according to the manufacturer's instructions.

- Please note: It is not necessary to use the "CellTiter Glo **3D**" assay kit. The scaffold thickness is only 50 µm and thereby compatible with the standard CellTiter Glo assay kit.

MTT/MTS/WST-1 assay (various suppliers)

1. Add 10-20 µL of the MTT/MTS/WST-1 assay reagent and incubate for 2-4 hours (refer to the respective instructions for further guidance).
2. MTT only: Carefully aspirate the supernatant and add 200 µL DMSO or other recommended solvent.
3. Shake vigorously for 2-5 min until a homogeneous solution is obtained and all crystals have dissolved (MTT only).
4. Transfer 100-200 µL of the content of each well into a fresh, clear plastic tissue culture plate: the scaffold gives rise to a background signal in absorbance-based assays!
5. Measure absorbances at 540 nm (MTT), 490 nm (MTS) and 450 nm (WST-1), respectively.

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