



QGel™ Protocol

Cell activity based assays: Example on how to measure the activity of cells grown in QGel™ MT 3D Matrix

ABOUT THIS PROTOCOL

This is an example of how to measure activity of cells grown in QGel™ MT 3D Matrix using AlamarBlue® reagent. Further information on these protocols can be found in published literature (e.g. Kraehenbuehl T. et al, *Biomaterials* 2008 and Adelöw C. et al, *Biomaterials* 2008). Note that this is only a guideline; volumes and concentrations of the different chemicals and incubation times require to be optimized depending on specific experimental condition.

PRODUCT SUPPORT

Brochures and videos on:
www.qgelbio.com/support

Suggested chemicals/solutions/kits:

- alamarBlue® reagent (Invitrogen™)

Brief procedure description:

1. Cells are encapsulated and grown within QGel™ MT 3D Matrix discs (produced following QGel™ instructions how to make gel discs).
2. At specific time points, remove media from the wells and add fresh media containing 4-20% alamarBlue® on the gel discs.
3. Incubate at 37°C for 4h-6h.
4. Collect the supernatant and analyze it by measuring either the fluorescence emission (see Kraehenbuehl T. et al, *Biomaterials* 2008) or the absorbance (see Adelöw C. et al, *Biomaterials* 2008) with a plate reader according to instructions provided by the kit manufacturer.

Protect from light!

Important note:

All samples should be normalized against a negative control containing medium and alamarBlue® only.