

Mel.Cor® is an *in vitro* assay that utilizes Axiogenesis Cor.At® cardiomyocytes to reproduce an authentic cardiac cellular environment for drug pharmacology screening.

Mel.Cor®

has important natural features that are lacking in current electrophysiological

in vitro

assay methods and is capable to display

hERG

effects.

Mel.Cor® is a physiologically authentic system that integrates a full range of cellular mechanisms which regulate cardiac potentials, such as the interaction between ion channel subunits (Na⁺ ,Ca²⁺ ,K⁺). Mel.Cor® also permits the simultaneous detection of drug effects on all ion channels, as well as on beta-ad

renergic

and

muscarinic

receptors. Other current systems for

in vitro

electrophysiological

analysis do not provide this physiologically accurate cardiac cellular environment so the data they produce is of limited value.

Mel.Cor

®

is also highly efficient and economical and thus can be particularly beneficial in screening large compound libraries.