

Cor.At® cardiomyocytes provide a standardized, homogenous and reproducible cell system for the *in vitro* classification of a compound's cardio-cytotoxic potential. After incubation with test compounds, the Neutral Red Uptake test is used to determine effects which directly affect the viability and integrity of cardiac cells when compared to a non-specific reference cell type, e.g. mouse fibroblasts.

The assay has been validated in-house using > 40 drugs with known cardiac safety profile to predict cardiac specific cytotoxicity of test compounds. The validation study revealed specificity, sensitivity, and positive and negative predictive values of > 90% each. Reference compounds are run within each test to ensure reproducible results.

It is possible to combine the Cor.At Tox test with an assay for troponin release in the cell culture supernatant.

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