A Report Of *In vitro* Anti-cancer activity of CANAID using Caco-2 cell line.

:: Submitted To::

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7. RESULTS

MTT ASSAY

The test sample was evaluated for its cytotoxicity against human epithelial cell line (Caco-2) using MTT assay. Different concentrations of the extract, such as; 1, 5, 10 and 1000 µl/ml shows 74.76%, 82.66%, 86.22% and 90.32% cytotoxicity towards Caco-2 cell line, respectively.

Further, standard sample (Cyclophosphamide) showed 91.22% cytotoxicity (**Annexure 1**).

8. DISCUSSION:

In the present study, in vitro cytotoxicity testing of *CANAID* was performed using human epithelial cell line (Caco-2). The test sample was subjected to cell proliferation assay by MTT. The results revealed that the extract showed significant cytotoxicity on Caco-2 cell line. Overall, the cell growth inhibition by the extract observed in this study was concentration dependant. Undiluted extract has shown 90.32% cytotoxic potential against Caco-2 cell line.

9. CONCLUSION:

It can be concluded that the test materials *CANAID* has shown cytotoxic potential under the prescribed test conditions. Maximum cytotoxicity observed was 90.32% by undiluted extract of *CANAID*.

23/7/2019

Study Director
Dr. Manish A. Rachchh

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Report of *In-vitro* Anti-cancer activity of "CANAID" using MCF-7 cell line

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7. RESULTS:

MTT ASSAY:

The test sample was evaluated for its cytotoxicity against human epithelial cell line (MCF-7) using MTT assay. Different concentrations of the extract, such as; 10, 50, 100, 500 and 1000 µl/ml shows 87.68%, 86.08%, 89.67%, 85.18% and 92.69% cytotoxicity towards MCF-7 cell line, respectively.

Further, standard sample (Cyclophosphamide) showed 92.85 % cytotoxicity (**Annexure 1**).

LC_{50} value of "CANAID" is found to be 1 µl/ml **(Annexure 3)**.

8. DISCUSSION:

In the present study, in vitro cytotoxicity testing of *CANAID* was performed using human epithelial cell line (MCF-7). The test sample was subjected to cell proliferation assay by MTT. The results revealed that the extract showed significant cytotoxicity on MCF-7 cell line. Overall, the cell growth inhibition by the extract observed in this study was concentration dependant. Undiluted extract has shown 92.69% cytotoxic potential against MCF-7 cell line.

9. CONCLUSION:

It can be concluded that the test materials *CANAID* has shown cytotoxic potential under the prescribed test conditions. Maximum cytotoxicity observed was 92.69% by undiluted extract of *CANAID.*

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13/01/2022

Study Director

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