



**PONDICHERRY CENTRE FOR BIOLOGICAL SCIENCE AND
EDUCATIONAL TRUST**

Reg.No.2840/B4/2016 Pondicherry

GST IN: 33AADTP1541L1ZL

SUSTAINABLE RESEARCH FOR BETTERMENT OF MANKIND

CERTIFICATE OF ANALYSIS

PCBSET/2021-2022/RN00119_2

Date: 03/02/2022

User information: **Dr. V. Latha,**
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Virudhunagar Distict,
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India

Sample information: Powder

Sample Code: U01

Analysis: Nuclear damage analysis using DAPI staining

Date of sample received: 10/10/2021

Date of Analysis: 25/01/2022

Date of report: 27/01/2022

NITI Aayog



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Methodology:

Cancer cells were seeded at a density of 0.2×10^6 cells per well in 12-well plates and treated with the IC50 concentration of test material for 24 h. Then, the cells were harvested, washed thrice with PBS and fixed with 3 % paraformaldehyde for 10 min at room temperature. The fixed cells were permeabilized using 0.2 % Triton X-100 in PBS for 10 min, incubated with DAPI ($0.5 \mu\text{g ml}^{-1}$) for 5 min and viewed under fluorescent microscope

Reference

1. Elumalai P, Gunadharini DN, Senthilkumar K, Banudevi S, Arunkumar R, Benson CS, Sharmila G, Arunakaran J (2012) Induction of apoptosis in human breast cancer cells by nimbolide through extrinsic and intrinsic pathway. *Toxicol Lett* 215:131–142

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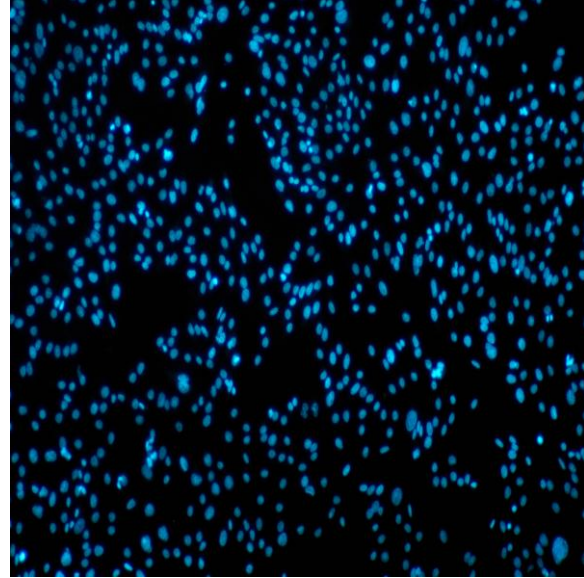
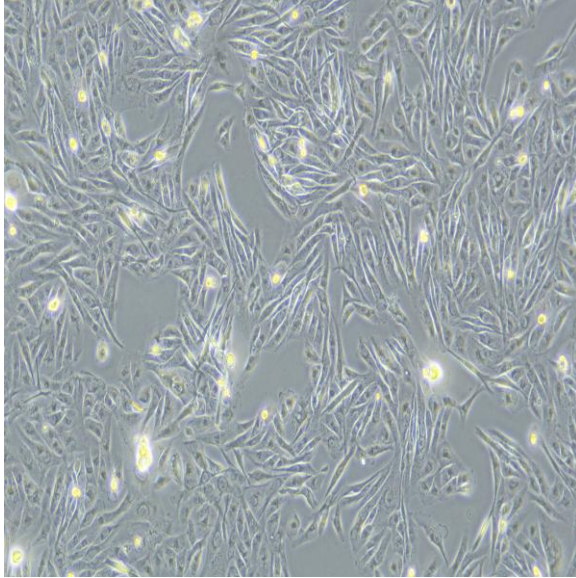
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MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
UDYAM REGISTRATION NUMBER - UDYAM-TN-31-0009450

Control



U01 (25 µg/ml)

