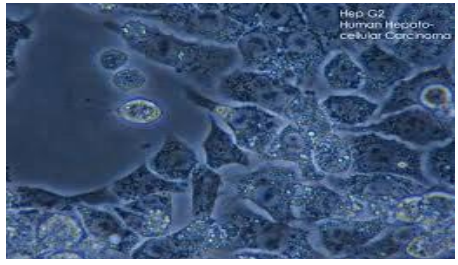
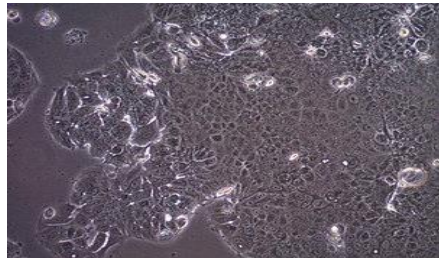



HEPG-2



MCF-7

**Hepatocellular carcinoma (HEPG-2) and Mammary gland breast cancer (MCF-7). The cell lines were obtained from ATCC via Holding company for biological products and vaccines (VACSERA), Cairo, Egypt.**

**Mehodology:**

**The cell lines mentioned above were used to determine the inhibitory effects of compounds on cell growth using the MTT assay. Cell lines were cultured in RPMI-1640 medium with 10% fetal bovine serum. Antibiotics added were 100 units/ml penicillin and 100µg/mL streptomycin at 37°C in a 5% $CO_2$ incubator. The cell lines were seedes in a 96-well plate at a density of $1.0x10^4$ cells/well. at 37°C for 48 h under 5% $CO_2$. After incubation the cells were treated with different concentration of compounds and incubated for 24 h. After 24 h of drug treatment, 20 µL of MTT solution at 5mg/mL was added and incubated for 4 h. Dimethyl sulfoxide (DMSO) in volume of 100 µL is added into each well to dissolve the purple formazan formed. The colorimetric assay is measured and recorded at absorbance of 570 nm using a plate reader (EXL 800 , USA). The relative cell viability in percentage was calculated as (A 570 of treated samples/A 570 of untreated sample) X 100.**

$$\%\text{Activity Index} = \frac{\text{Zone of inhibition by test compound (diametre)}}{\text{Zone of inhibition by standard (diametre)}} \times 100$$

**Scheme 6S.**The cytotoxicity using the MTT assay