

PP 011

## **Effects of Concentrations of Pentachlorophenol under Serum and Free-serum medium on L929 cell line**

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It has not been fully elucidated how endocrine disrupting chemicals disrupt hormone functions or how strong their effects are compared with natural hormones. There is little information concerning the effects of pentachlorophenol (PCP), one of the endocrine disrupters on living organism. PCP, widely used as wood preservative, pulp factory and paper mills, has led to a substantial environmental contamination. A lot of what can be occurred at circumstance enduring problem in environment as long period for use comparison stabilization framework.

To assess effective risk assessment of PCP, toxicity of PCP was assayed on MTT assay and changed cellular form through optics microscopic observation from L929 culture. To be convinced of apoptosis, We observed DNA fragmentation from L929 by toxicity of PCP with Hoechst stain and DNA ladder.

MTT assay after 24 and 48 hours after PCP treatment on L929 grow. The cell viability grown in both medium conditions increased after treatment of PCP at low concentration. These findings suggest that PCP exert a apoptosis-inducing and -inhibiting effect. These diverse effect of PCP on apoptosis would cause serious damages on cell differentiation.

**Keywords** : pentachlorophenol, L929 cell line, MTT, apoptosis