

**DEGRADATION AND DRUG RELEASE STUDIES OF COPOLYMER OF (1,3-BIS(P-CARBOXYPHENOXY)PROPANE (CPP) AND SEBACIC ACID (SA) LOADED WITH CIS PLATIN**

M. Yusuf, F.S. Abdul Rahman, N.A. Johan, S.A. Abu Bakar and K. Noorsal\*  
*Advanced Materials Research Centre (AMREC), SIRIM Berhad,  
Lot 34, Jalan Hi-Tech 2/3, Kulim Hi-Tech Park, 09000 Kulim, Kedah, Malaysia*  
\*Corresponding Author: [kartini@sirim.my](mailto:kartini@sirim.my)

**ABSTRACT**

The degradation and drug release studies of poly((1,3-bis(p-carboxyphenoxy))propanecobasic acid) loaded with cis platin are studied through various means. The drug loaded samples were first prepared from compression molding technique and degraded in 0.01M phosphate buffer saline at 37°C with pH of 7.4 at predetermined time. Interaction of drug and the polymer was monitored through FTIR and DSC. The influence of the drug to the degradation behaviour of the copolymer was detected through mass loss and water uptake and also pH changes. Variable Pressure Scanning Electron (VPSEM) was used in studying of the effect of degradation to the surface topography of the samples. The drug release profile is monitored through the U.V. spectroscopy work.

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