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TOXICITY TEST OF NEW SOLUBILIZER FOR PACLITAXEL IN BEAGLE DOG

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Paclitaxel is currently administered i.v. as a slow infusion of a solution of the drug in an ethanol: cremophor EL: saline admixture. However, poor solubilization and toxicity are associated with this drug therapy. We have tried to develop a new surfactant for paclitaxel to improve efficacy and reduce toxicity of solubilizer. We performed the hemolysis test for chemicals which passed the paclitaxel-stabilizing test and 5 chemicals showing relatively low hemolytic effects were tested for a single dosing toxicity test. And then aceporol 330, which showed the most favorable result, was introduced to the repeated dosing toxicity tests in mouse and beagle dog. According to data based on body weight, mortality, dissection, homological test and biochemical test, Aceporol 330 exhibited much more reduced toxicity than cremophor EL.