

Dendritic cell (DC) is the most effective antigen presenting cell in human organism. Dendritic cells plays important role in immunity response because they stimulate naive T-lymfocytes. This propeliy is very useful in immunotherapy of tumor diseases. The general aim of this work was to optimalize operating protocol for preparation vaccine containing dendritic cell s for patients with ovarian carcinoma. We examined single parts of process of preparation and their impact on result of whole process. We were interested in used plastic, from which are culture bottle made, and its impact to maturation of dendritic cells. Next thing that we examined was if we use the same kind of maturation reagent, type poly I:C, from different producers, will be dendritic cells matured in the same way. After made vaccines are freezed to -80DC to keep their immunosupresive properties. We examined if DCs after defrosting have the same properties like before. We also examined diferent types of medium used for freezing and their impact to fenotype and service life ofDCs.