In this project, production of multifunctional wound dressing biomaterial controlled drug delivery to permit the healing and treatment of wounds and burns on the skin in a shorter period before the infection was aimed. In the production of the material, a mixture produced by the St John's wort (Hypericum perforatum) plant containing antibiotics (hyperforine), antibacterial (carophyll IN, α-pinene and sesquiterpenes) and antimicrobial (hyperforine), antioxidant-altering and restoring active ingredients and volatile oil by incubating in olive oil, will be used as wound healing drug. The prepared mixture will be used to produce bicomponent nanofiber wound dressing by using electrospinning method. In addition to, inclusion complexes of cyclodextrin with olive oil containing active agents will be prepared and it will be investigated that their usage in production of wound dressing nanofiber surface or functionalization of available wound healing products.