

Method for obtaining solid dispersions of quercetin with polyvinylpyrrolidone K-30 (PVP K-30) is performed as follows: a weighed portion of quercetin is mixed with 96% ethyl alcohol; separately, polyvinylpyrrolidone K-30 is dispersed in purified water, heated to 40 °C at a speed of 350 rpm for 30 minutes; after PVP K-30 has fully expanded, it is added to quercetin suspension at anchor mixer speed of 350 rpm and stirred for 10 minutes, dried to a residual moisture content of 19% and microcrystalline cellulose-102 is added with constant stirring until homogeneous mass is obtained in laboratory mixer for 20 minutes at 350 rpm. After mixing is complete, granules are obtained using laboratory granulator by pressing through a 1.0 mm diameter sieve, then dried in drying oven at 40 °C under vacuum to a vacuum depth of -1 bar; after drying, sample is ground, calibrated, and dusted with aerosil.