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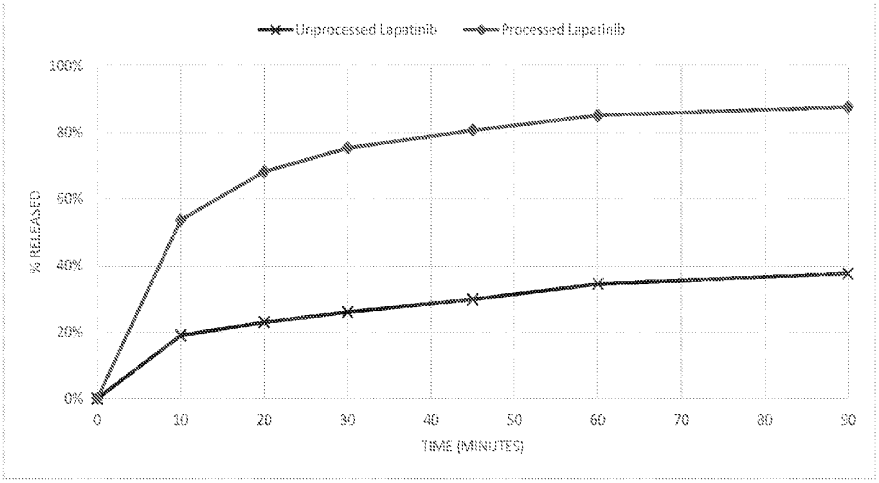
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(54) Title: LAPATINIB PARTICLES AND USES THEREOF

Figure 5



(57) Abstract: The disclosure provides particles of at least 95% by weight of lapatinib, or a pharmaceutically acceptable salt thereof, wherein the particles have a specific surface area (SSA) of at least 10 m^2/g and have a mean particle size by volume distribution of between 0.7 and 8 um. A method for making lapatinib particles, comprising: (a) introducing (i) a solution comprising at least one solvent selected from the group consisting of acetone and DCM, or combinations thereof, and at least one solute comprising lapatinib into a nozzle inlet, and (ii) a compressed fluid into an inlet of a vessel; (b) passing the solution out of a nozzle orifice and into the pressurizable chamber to produce an output stream of atomized droplets, wherein the nozzle orifice is located 2 and 20 mm from a sonic energy source, wherein the sonic energy source produces sonic energy with an amplitude

WO 2022/020455 A1

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between 10% and 100% during the passing, and wherein the nozzle orifice has a diameter of between 20 and 125 um; (c) contacting the atomized droplets with the compressed fluid, to cause depletion of the solvent from the atomized droplets, wherein steps (a), (b), and (c) are carried out under supercritical temperature and pressure for the compressed fluid.