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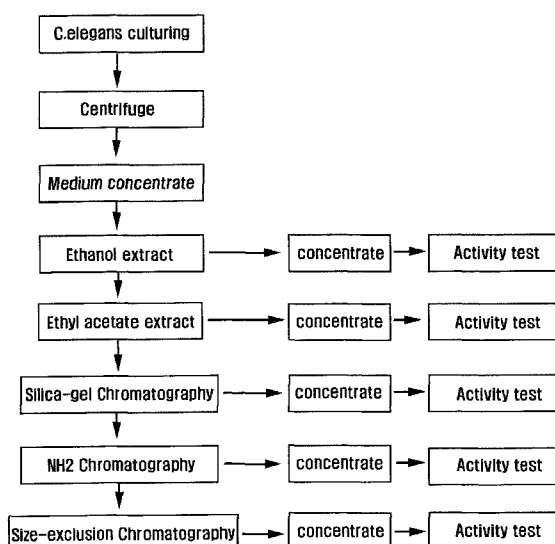
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(54) Title: PHARMACOLOGICALLY ACTIVE NOVEL DAUER PHEROMONE COMPOUND FOR CONTROLLING AGING AND STRESS AND METHOD FOR ISOLATING AND CHARACTERIZING THE SAME



(57) Abstract: The present invention discloses a method for effectively isolating and purifying a physiological active dauer pheromone compound having the following structural formula I related to aging and stress of *C. elegans*, and determination of the structure of such material. First, ethanol extract is prepared by completely concentrating a liquid medium with ethanol after culturing *C. elegans* on a S. basal liquid medium, and then this ethanol fraction is further extracted with ethyl acetate. Then, impurities are removed from ethyl acetate extract by a silica-gel adsorption chromatography and a pheromone extract is isolated and purified by amine column chromatographic procedures using various solvents as eluent. Finally, a pheromone compound having structural formula I is completely isolated and characterized by size-exclusion HPLC.

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