Research of Biological Efficacy of Barley Sprout Extract and Development for Dietary Supplements

Jae-Chul Jung*
Novarex Co., Ltd. Research and Development, 94, Gangni 1-gil, Ochang-eup, Cheongwon-gu, Cheongju 28126, Chungcheongbuk-do, Korea

Barley sprout has the most balanced nutrition large amounts of vitamins, minerals with a strong antioxidant among green plants. It was reported that barley sprout protects the body from the radical, increase the immune system, reduce oxidative stress, reducing cholesterol, reducing cardiovascular disease. Its soluble fiber is known that there is role of reducing the risk of heart disease based on inhibit the absorption of cholesterol and saturated fat. We established optimal extract method of extract of barley sprout in order to get biological active component as saponarin with 1.7 mg·g$^{-1}$ using cultivated in Yeonggwang-gun, Korea after tentative review extract conditions. Furthermore, we found that the standardized extract of barley sprout showed good effective to alcoholic liver injury in vivo test and human clinical study.

T. 043-218-0510, jcjung@novarex.co.kr