

Table S2. Effects of the seed oils from selected edible *Trichosanthes* germplasm on the longevity of *C. elegans*.

Groups	Mean lifespan (h) (Mean ± SD)	Maximum lifespan (h) (Mean ± SD)	Mean fold Change (%)
SDJN	22.17 ± 0.61 <sup>A</sup>	34.00 ± 0.00	45.46
YNHH	22.15 ± 0.65 <sup>A</sup>	34.00 ± 0.00	45.31
GXYL	20.80 ± 0.74 <sup>A</sup>	32.00 ± 0.00	36.44
SXHZ	18.98 ± 0.42 <sup>B</sup>	28.00 ± 0.00	24.54
Linseed oil	18.09 ± 0.72 <sup>B</sup>	26.00 ± 0.00	18.65
ZJQT	17.59 ± 0.40 <sup>B</sup>	24.00 ± 0.00	15.40
Blank Control	15.24 ± 0.65 <sup>C</sup>	24.00 ± 0.00	/

The data were analyzed by one way-ANOVA analysis and different uppercases indicated significant difference at level of 0.01 by Least-Significant Difference Test (LSD).

Red: *T. laceribractea* Hayata; Blue: *T. rosthornii* Harms; Green: *T. kirilowii* Maxim.