

Antioxidant Activities and Antimicrobial Activity against *Helicobacter pylori* of Extracts from *Dystaenia takesimana* Kitagawa

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This study was carried out to determine the antioxidant activity and antimicrobial activity on *Helicobacter pylori* from *Dystaenia takesimana* Kitagawa extracts. Total phenolic contents of the water and 70% ethanol extracts were 3.8 ± 1.08 , 2.1 ± 0.96 mg/g, respectively. Antioxidant activities of water and 70% ethanol extracts of *Dystaenia takesimana* Kitagawa were $91.12 \pm 0.14\%$ and $92.07 \pm 1.92\%$ in DPPH, $79.72 \pm 0.10\%$ and $97.56 \pm 1.37\%$ in ABTS, 1.27 ± 1.34 and 1.29 ± 1.09 PF in antioxidant protection factor, $95.98 \pm 0.78\%$ and $62.62 \pm 0.32\%$ in TBARS. The inhibition rates against elastase of water and 70% ethanol extracts were $22.32 \pm 1.25\%$ and $23.34 \pm 4.66\%$, and inhibitory activities against the angiotensin converting enzyme were $93.05 \pm 5.47\%$ in water extracts, $92.68 \pm 2.89\%$ in 70% ethanol extracts. The inhibitory activity of *Dystaenia takesimana* Kitagawa extracts on *H. pylori* was determined upon clear zone of 13mm with 70% ethanol extracts. These results will be helpful for understanding physiological effects of *Dystaenia takesimana* Kitagawa extracts.

Key words: *Dystaenia takesimana* Kitagawa extracts, antioxidant activities, antimicrobial activity, *Helicobacter pylori*.