

### Antioxidant and Antibacterial Activity of Fruits and Vegetables Containing Anthocyanin

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This study examined the antioxidant activity and antimicrobial activity using the purples weet potato, aroniaberry, blueberry, raspberry, and mulberry is rich in anthocyanins. DPPH radical scavenging activity and ABTS radical scavenging activity of aronia berry was the most outstanding. The total phenolic content aroniaberry, purplesweet potato, blueberry, raspberry, mulberrys appeared in order. Superoxide dismutase-like activity and nitric oxide free radical scavenging activity was tested. The strains used in the anti-inflammatory experiment are Bacillus subtilis, Escherichia coli, and Staphylococcus aureus. Aroniaberry and purples weet potato showed a high anti-inflammatory potency. These results suggest that anthocyanins contained in the fruits and vegetables can be used as excellent antioxidants and antimicrobial agents.