The Anti-oxidant Effect of Extracts from the *Amelanchier arborea* fruit

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The present study indicates the efficacy of the natural antioxidants of cosmeceutical and medicinal industries as resource. In the investigated anti-oxidant activity of 70% ethanol extracts from the *Amelanchier arborea* fruit was extent. The anti-oxidant activity was determined by using measuring of total polyphenolic content, electron donating ability, nitric oxide radical scavenging activity, superoxide dismutase like activity, superoxide anion radical scavenging activity, ABTS•+ cation radical scavenging activity and hydrogen peroxide scavenging activity. The polyphenolic content of fruit was 34.48 ㎎ TAE/g. In the result of electron donating activity, fruit showed an effect of 51.52% at 1,000 ㎍/㎖. In the NO radical scavenging ability, fruit showed 34.93% at 1,000 ㎍/㎖. Superoxide dismutase like activity, fruit showed 41.05% at 1,000 ㎍/㎖. Superoxide anion radical scavenging activity, fruit showed 70.72% at 1,000 ㎍/㎖. ABTS•+ cation radical scavenging activity of fruit at 1000 ㎍/㎖ concentration was showed 59.29%. Also hydrogen peroxide scavenging activity, fruit showed 92.69% at 500 ㎍/㎖. These results demonstrates its potential as anti-oxidants of *Amelanchier arborea* fruit.

**Key words** : *Amelanchier arborea,* anti-oxidantive activity, cosmeceutical