



# Agricultural Journals

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# **Czech J. Food Sci.**

**Buřičová L.,  
Andjelkovic M.,**

**Cermáková A.,  
Réblová Z., Jurček O.,  
Kolehmainen E., Verhé  
R., Kvasnička F.:**

## **Antioxidant capacity and antioxidants of strawberry, blackberry and raspberry leaves**

Czech J. Food Sci., 29 (2011): 181-189

The total phenolic content (Folin-Ciocalteu method), free radical scavenging ability expressed as DPPH value, ferric reducing antioxidant capacity (FRAP), and oxygen radical absorbance capacity (ORAC) were determined in water extracts of leaves from *Rosaceae* family plants (*Fragaria vesca* L., *Rubus fruticosus* L., and *Rubus idaeus* L.). The antioxidant capacities of the extracts (in the order of the above mentioned methods) were 73.6– 88.9%, 60.1– 71.4%, 49.7– 78.0% respectively, and 45.3– 66.5% of that of green tea water extract. Further, the presence of 15

compounds (gallic acid, rutin, ellagic acid, caffeic acid, *p*-coumaric acid, quercetin, kaempferol, myricetin, quercetin-3-d-glucoside, ascorbic acid, (+)-catechin, (–)-epicatechin, epicatechingallate, epigallocatechin, procyanidin B1) was studied by HPLC-ECD and their antioxidant capacities were compared to the antioxidant capacity of the extracts. Out of the compounds studied, mostly (+)-catechin, ellagic acid, and (–)-epicatechin participated in the antioxidant capacities of the studied plant leaves water extracts. The antioxidant capacity c