Title	Peeling has no effect on respiration and ethylene production and only minimal effect on
	quality of fresh white asparagus spears
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Abstract

Fresh white asparagus spears were subjected to peeling or left unpeeled before storage at 10 °C for 7 days. CO_2 and ethylene production rates were determined during storage, while color, toughness and DPPH radical scavenging activity as well as soluble solids, total soluble phenols and nitrate content were determined before and after storage in both peeled and unpeeled spears. Peel CO_2 and ethylene production rates were also determined during storage. Spears subjected to peeling were more tender, and had lower lightness and chroma and higher hue angle values compared to the unpeeled ones. However, both peeled and unpeeled spears had similar DPPH radical scavenging activity, soluble solids, total soluble phenols and nitrate contents. Peeling resulted in increased CO_2 and C_2H_4 production rates, but peel contributed to total increase of CO_2 and C_2H_4 production. As the measured metabolic activity of the peeled asparagus spears was similar to that of the unpeeled, peeling did not adversely affect quality during storage.