

## The effect of charcoal in cigarette filters on free radicals in mainstream smoke

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Table of Contents:

Table S1.....Pg S2.

**Table S1:** Filtration properties of the three different types of activated charcoal selected in this study to examine effects on cigarette mainstream free radical and nicotine levels.

Charcoal Type	Name	Description	Mesh Size	Sampling properties
<b>A</b>	<b>Anasorb 747</b>	Beaded active carbon	20/40	High surface area Capacity for organic vapors similar to petroleum-based and coconut-shell charcoal Effective collector of non-polar and polar organic compounds Normally used with solvent desorption. Recommended Temperature Limit 350 C (Maximum temperature limit with a nitrogen purge.)
<b>B</b>	<b>Anasorb CSC</b>	Coconut-shell Charcoal	20/40	High surface area for sampling a broad range of primarily nonpolar compounds Recommended Temperature Limit 900 C. (Maximum temperature limit with a nitrogen purge.)
<b>C</b>	<b>Anasorb JXC</b>	Charcoal derived from residue of petroleum products	20/40	High surface area for sampling a wide range of both polar and non-polar products Recommended Temperature Limit 750 C (Maximum temperature limit with a nitrogen purge.)