Dioxins are environmental contaminants released into the air from combustion processes that remain in the environment for many years. They are highly toxic chemical compounds harmful to human health.

Where do dioxins come from?

Dioxins are released into the air from combustion processes. Strict regulations are in place regarding food samples testing to detect dioxins (at very low levels). There is a need for greater testing capacity in control labs because of increasingly global nature of the food supply chain, and especially when a crisis occurs. For example:

- Government regulatory bodies worldwide are increasingly more concerned about dioxins in our food, and are strictly monitoring specific foods with the goal of identifying ways to reduce dietary exposure.

How are humans exposed to dioxins?

Humans are exposed to dioxins through the food of animal origin. Scientists and health experts are concerned about dioxins because exposure may result in a variety of adverse health effects.

What is the impact of dioxins on human health?

Dioxins accumulate in the food chain. Scientists and health experts are concerned about dioxins because exposure may result in a variety of adverse health effects.

What measures are being taken to monitor and reduce dioxins?

Strict regulations are in place regarding food samples testing to detect dioxins (at very low levels). There is a need for greater testing capacity in control labs because of increasingly global nature of the food supply chain, and especially when a crisis occurs. For example:

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How are dioxins monitored and analyzed?

Dioxins are released into the air from combustion processes1. Strict regulations are in place regarding food samples testing to detect dioxins (at very low levels). There is a need for greater testing capacity in control labs because of increasingly global nature of the food supply chain, and especially when a crisis occurs. For example:

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Technology solutions for the detection and analysis of dioxins

Because dioxin analysis is costly and time-consuming, there is an increasing need for technology solutions. Agilent has technology solutions for the detection and analysis of dioxins.

To learn more about Agilent solutions visit: www.agilent.com/en/solutions/food-testing-agriculture/persistent-organic-pollutants/dioxins-dioxin-like-compounds