

Dioxin Analysis

Dioxins are family of toxic chemicals that all share a similar chemical structure and a common mechanism of toxic action. This family includes the polychlorinated dibenzo dioxins (PCDD's), polychlorinated dibenzo furans (PCDF's) and Polychlorinated biphenyls. Dioxins have been characterised by EPA as likely to be human carcinogens and are anticipated to increase the risk of cancer at background levels of exposure.

Human Exposure

Humans receive almost all dioxin exposure from the food They eat, specifically from the animal fats associated with eating beef, pork, poultry, fish milk and dairy products.

Level of Exposure

The US-EPA has set a limit of 0.00003 micrograms of dioxin per liter of drinking water. The Food & Drug Administration recommends not eating food with more than 50 parts per trillion of dioxins.

All the developed countries are very much cautious about testing of dioxin along with other harmful pesticides and microbial parameters. Analysis of dioxin in PPT (Parts per Trillion) is very difficult as it requires highly skilled man power and one of the most sophisticated and ultra modern instrument - HRGC-HRMS.

Efrac is one among the very few test-ing and R&D centre, who are having the facility of analysing dioxins and furans in PPT levels.

Product We Are Testing

- Herbal extracts
- Guar gum
- Fish and shrimps
- Poultry
- Animal feed
- Meat
- Resins
- Incinerators

Parameters to be tested

- Dioxins and furans(PCDD and PCDF)

Equipments used

- HRGC-HRMS

Method used

- USEPA - 8290 &1613 for dioxins and furans

