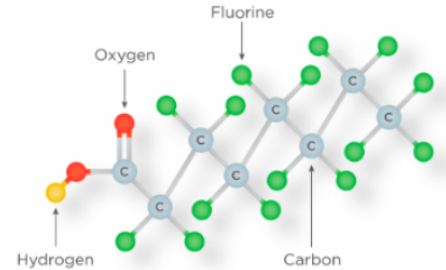


# PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)



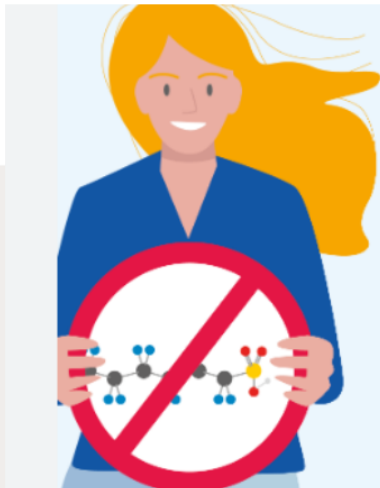
PFAS are in your blood, but it is unclear what the results mean in terms of possible health effects. Testing may help some individuals understand if they are exposed to certain PFAS and help guide exposure reduction

PFAS are used to keep food from sticking to packaging or cookware, make clothes and carpets resistant to stains, and create firefighting foam that is more effective. PFAS molecules have a chain of linked carbon and fluorine atoms.

Since PFAS chemicals have a special bond of carbon and fluorine atoms, it makes them incredibly strong and resistant to heat, water, oil, and dirt. And because they are so good at this.

## HEALTH IMPACTS

Changes in cholesterol and liver enzyme levels. Small changes in infant birth weight. Changes in the immune system and response to certain vaccines.



## HOW TO PREVENT PFAS CONTAMINATION

Choose furniture and carpets that are not labeled “stain-resistant,” and don't apply stain resistant treatments to items. Check product labels for ingredients that include the words “fluoro” and “perfluoro” and don't use them. Household dust can contain PFAS that was shed from items that have PFAS in them.

## PFAS PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES



Our LC-MS/MS is the most commonly used analytical instrumentation for the detection of PFAS in aqueous environments. Liquid chromatography is best suited for the aqueous samples and allows for separation of the various PFAS of interest

US EPA Method 533 is a solid-phase extraction (SPE) liquid chromatography/tandem mass spectrometry (LC/MS/MS) method to determine 25 target PFAS in drinking water. Method 533 addresses some of the more challenging C4 and C5 acids and sulfonates in EPA methods 537 and 537.1.

These analytical protocols represent industry accepted best practices and are typically based on United States Environmental Protection Agency (US EPA) methods. Samples are spiked with isotopically labelled analogues of the native compounds being measured

Bio Synergy Lab utilizes accurate and precise methods along with our unmatched expertise to support PFAS analysis in a wide range of matrices.