



Perfluorinated and Polyfluorinated Alkyl Substances (PFAS) in Blood

What are PFASs?

PFAS (per- and polyfluoroalkyl substances) are a group of synthetic compounds that have been produced commercially since the 1950s.

PFAS were widely used in a variety of consumer goods, including waterproof clothing and non-stick kitchenware in order to make goods stain and stick resistant. PFAS have also been widely used in industrial products, particularly in Aqueous Film Forming Foams (AFFFs) for firefighting and also various industrial practices.

PFOS and PFOA appear to be the most researched PFAS compounds. Exposure to these compounds is widespread and most of the Australian population are expected to have a measurable level of PFAS in their blood. These compounds are expelled from the body slowly.

Potential Sources of Exposure

- ✓ Drinking contaminated water.
- ✓ Ingestion of contaminated foods, such as shellfish.
- ✓ Eating foods packaged in PFAS treated wrapping – pizza boxes and popcorn bags commonly contained PFAS in the past.
- ✓ Workers exposure - directly involved in the use or manufacture of PFAS products or where PFAS are used in industrial practices.



Health Risks

There is currently limited published data available on health risks. Whilst we recommend you consult a medical- professional, you can also read more about PFAS at health.gov.au

NATA Accredited for PFAS in Blood and Serum Samples



Accreditation Number 2901

The National Association of Testing Authorities (NATA) is the authority that provides independent assurance of technical competence through a proven network of best practice industry experts for customers who require confidence in the delivery of their products and services.

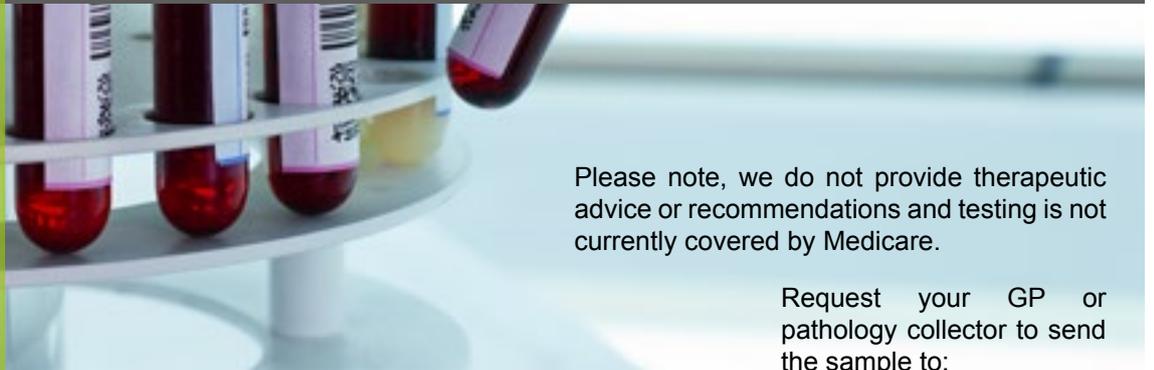
As a leading laboratory, we are fully accredited and qualified to perform testing for PFAS in blood and serum according to national standards.

With **NATA Accreditation**, you have the confidence that you are partnering with a laboratory that will provide you with quality results. Contact us today to find out more.



Providing a Blood and Serum Sample

Visit your medical professional for a referral to have your blood taken. Envirolab will then test your blood / serum for PFAS and provide results to your doctor.



Please note, we do not provide therapeutic advice or recommendations and testing is not currently covered by Medicare.

Request your GP or pathology collector to send the sample to:

**Envirolab,
12 Ashley St,
Chatswood, NSW, 2067**

Interpretation of Results

There is inconsistent evidence that exposure to PFAS causes health effects. As there is no current reference value for humans, the best option is to compare your blood result to Table B on the right.

We have also included links to Published Papers in Australia, USA and Germany.

Table B is purely for reference purposes only and we encourage you to read the published papers in their entirety.

Table A

Matrix	Lab Code	Container	Price	Transport
Blood / Serum	PFAS-Blood	1 x 8ml SST (gold) and 1 x 8ml whole blood (red)	\$475 + GST	Not frozen

Table B

Age Group	PFOS ng/ml	PFOA ng/ml
0 – 4 years	13	9
5 – 15 years	19	8
16 – 30 years	20	9
31 – 45 years	26	8
46 – 60 years	30	8
61 + years	38	10

Reference: Aylward Lesa L, et al. Population variation in biomonitoring data for persistent organic pollutants (POPs): An examination of multiple population-based datasets for application to Australian pooled biomonitoring data. *Environment International*. 68 (2014).127-138.

Table B above shows the 95th percentile results for a serum survey of pooled samples (4 pools of 100 samples per age group) from the Australian population in 2011-2012.

The 95th percentile means that 95% of the time the data was below this level, while 5% of the time the data was above this level.

Quality customer service is our prime objective. Our experience, together with state-of-the-art facilities ensure that you are provided with a fast turnaround of results. We also take pride in having quality control procedures in place and work according to strict quality control protocols.

With our local offices and laboratories across Australia, ask us today about how we can help you.



Additional References

<https://enveurope.springeropen.com/articles/10.1186/2190-4715-23-38>

https://www.atsdr.cdc.gov/pfc/docs/pfas_clinician_fact_sheet_508.pdf

For further information contact our laboratories



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