



## Frequently Asked Questions

**How often should I use ICP-TRUE-RINSE (every sample, every other sample, once a week, once a month, as needed, etc.)?**

Use ICP-TRUE-RINSE as a rinse after each sample if that sample contains the elements you are experiencing washout issues with.

**Is ICP-TRUE-RINSE safe to use on both ICP-MS and ICP-OES?**

Yes, ICP-TRUE-RINSE is safe to use on both ICP-OES and ICP-MS. It is also safe to run on both glass and plastic intro systems. Be aware that HCl is present and you should run multiple rinses with water or your blank afterward to prevent Cl interferences on MS.

**Why is ICP-TRUE-RINSE so effective at mobilizing sticky elements?**

Thiourea, in combination with HCl, forms a strong complex with precious metals and heavy metals where the sulfur atom of the thiourea complexes with the metal ion on one side, while the chloride(s) (the number of chlorides depends on the coordination number of the metal) bind to the other sides. This surrounds the metal ion and prevents binding to the other materials the complex comes in contact with.

**What volume of ICP-TRUE-RINSE should be used each time I rinse?**

The rinse time will depend on elements and concentrations present in the samples, as well as what type of intro system and setup you are using, and the pump speed/flow rate of the rinse solution through your system. We recommend monitoring the instrument signal for elements you are having washout problems for, while the rinse is running, to see when the signal comes back to baseline. That should be the time it takes for the rinse to washout that element.

**How many washes should I use/how many times should I run the wash?**

The rinse time will depend on elements and concentrations present in the samples, as well as what type of intro system and setup you are using, and the pump speed/flow rate of the rinse solution through your system. We recommend monitoring the instrument signal for elements you are having washout problems for, while the rinse is running, to see when the signal comes back to baseline. That should be the time it takes for the rinse to washout that element.

**The free sample will be pre-diluted, what is it diluted with?**

Through testing, we have determined that this will not be sold as a concentrate and can only be sold prediluted, due to the off-putting smells it emits at a concentrate level. It is diluted with our state of the art deionized water system. ICP-TRUE-RINSE solution will come ready to use!

**Is there risk of running this solution on an ICP?**

There is no risk of running this solution on an ICP. We have personally run up to 6% Thiourea without any problems.