



GREAT RESULTS  
BEGIN WITH  
GOOD PREPARATION



Titan MPS Microwave  
Sample Preparation System

# PREPARE TO SEE THE DIFFERENCE

## The first step to better analysis

Environmental, food, and agriculture scientists helping determine the nutritional content, or safeguarding the authenticity, of the food we eat. Pharma researchers analyzing impurities that affect drug efficacy and metabolism. Engineers helping develop the ecofriendly technologies and alternative energy sources of the future. These scientists and others depend on atomic spectroscopy techniques to generate the data they need to make informed decisions.

And to deliver great results, these scientists insist on microwave sample preparation that can provide complete, uncontaminated samples. Bad preparation? Bad results. It's as simple as that.

With the Titan MPS™ microwave sample preparation system, we're delivering on the promise of a simple, safe, cost-effective microwave – one that provides the quick return on investment that labs are looking for in these times of constrained budgets. And it's backed by PerkinElmer, the one-stop, go-to resource for all things atomic spectroscopy. With a team of support individuals who have a great understanding of the science behind the goals your lab is trying to achieve.

The Titan MPS microwave sample preparation system. Yes, it's a microwave. But we think it's a whole lot more.



## The Titan MPS System: What sets us apart?

Some think all microwave sample preparation systems are the same. But there are some little differences that end up making a big difference:

- This top-loading system with an interlocked lid allows easy loading and removal of individual vessels
- The cylindrical, pressure-resistant, PFA-coated stainless steel oven chamber and optical temperature and pressure reaction monitoring systems ensure the most reproducible results
- Color touch-screen controller simplifies programming, data storage, and reaction control
- Vessels are reusable and guaranteed for one year, for considerable savings on consumables
- Integrated gas collection system efficiently vents the oven chamber to keep it free of gas or acidic vapors

# IT'S NOT JUST THE MICROWAVE IT'S EVERYTHING BEHIND IT

## Take it from the top

Before you prepare your first sample, you'll notice the difference: The Titan MPS system is a top-loading microwave protected by hardware interlocks to ensure safety during operation. Loading and unloading samples is simple, too, which keeps everyone more productive – and saves your lab time and money.

The PFA-coated oven cavity is corrosion resistant and includes a gas collection system that removes any gases that vent during digestion. The chamber continually evacuates during oven operation, keeping the enclosure free of gas or acidic vapors.

And for flexibility, the system supports interchangeable turntables, which enable you to change from one vessel type to another quickly and easily, expanding your working pressure range.

## Hold everything

Strong and durable, the vessels are made of tough TFM™ fluoropolymer, which is resistant to harsh reaction environments.

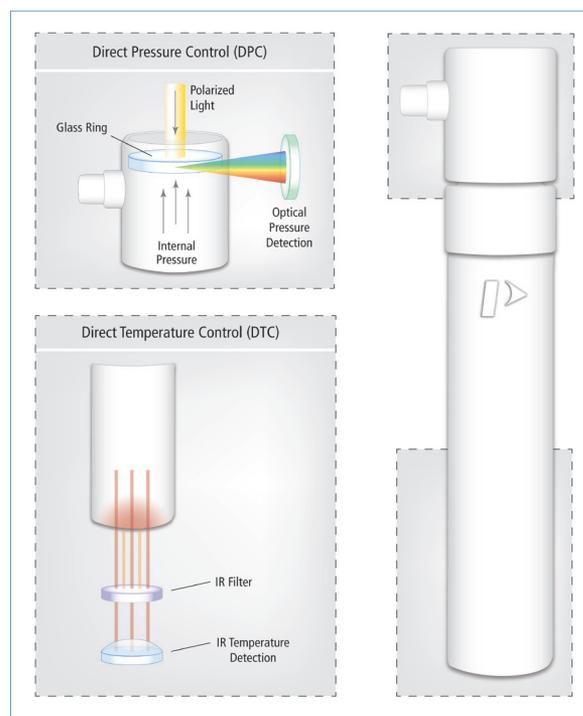
Digestion performance is enhanced further thanks to our unique Direct Pressure Control™ (DPC) and Direct Temperature Control™ (DTC) optical-reaction monitoring systems, which measure the temperature of the individual sample within each vessel. Measurement takes place every time a vessel passes the sensor, resulting in a constant adjustment of power level. Complicated connections between vessel and oven are totally eliminated – and with no thermocouples or probes to insert, you get simple, dependable, contamination-free monitoring.

What's more, vessels are serialized and come with a one-year warranty, for considerable savings on your consumables budget. And speaking of consumables, we're a leading provider of scientific instruments, services, informatics, and consumables to a variety of industries – so rest assured we can take good care of your lab, from sample preparation to analysis to communication of test results.

## Simple, intuitive operation makes everyone an expert

Controlling your Titan MPS microwave sample preparation system couldn't be simpler. An integrated color touch-screen controller, driven by a PowerPC™ CPU, delivers user-friendly tools for reaction control, data analysis, and storage of digestion data and user methods. The software comes preinstalled with a number of sample methods covering a wide range of digestion conditions – and the system accommodates any of the additional methods you create and come to rely on.

Built to network, the Titan MPS system can be accessed and monitored via a simple, intuitive GUI from any PC on your lab's network – no special software is required.



## We know your lab – from sample prep to final results

At PerkinElmer, we're leading providers of the AA, ICP-OES, and ICP-MS instrumentation and data systems at the heart of your lab. So when we're called on to service your Titan MPS microwave sample preparation system, we'll deploy someone who is expert in your complete atomic spectroscopy solution.

Matter of fact, we field more than 1600 trained and certified service and support professionals around the world, dedicated to helping you realize the maximum productivity and ROI from all the instruments and systems in your lab – including your Titan MPS microwave sample preparation system.

What's more, OneSource® Laboratory Services comprises the most comprehensive portfolio of professional laboratory support offerings in the business, including complete care programs for nearly any technology and manufacturer. And by allowing you to consolidate all your service contracts under one supplier – and by delivering expert technical advice and support at a moment's notice, all day, every day – we can keep your instruments and your lab running at optimum levels. And eliminate the finger-pointing that can happen with piecemeal approaches.

Add to that the ability to deliver all the consumables and accessories you rely on, and it's clear: this is the one-stop shop you've always wanted to do business with.

The Titan MPS microwave sample preparation system. It's a microwave – and everything that comes with it.

### TITAN MPS SAMPLE PREPARATION SYSTEM OVERVIEW

**Includes:**

Turntable and gas manifold  
Direct Temperature Control (DTC)  
Direct Pressure Control (DPC)  
Startup consumables for approximately 500 runs

Power	230 V, 50 – 60 Hz
Maximum pressure rating	100 bar (8 position) 40 bar (16 position)
Temperature control	Optical/sample temperature
Pressure control	IR/direct sample
Part numbers	N3130100 (16 position) N3130110 (8 position)

For more information on the Titan MPS microwave sample preparation system, visit [www.perkinelmer.com/titanmps](http://www.perkinelmer.com/titanmps)

PerkinElmer, Inc.  
940 Winter Street  
Waltham, MA 02451 USA  
P: (800) 762-4000 or  
(+1) 203-925-4602  
[www.perkinelmer.com](http://www.perkinelmer.com)



For a complete listing of our global offices, visit [www.perkinelmer.com/ContactUs](http://www.perkinelmer.com/ContactUs)

Copyright © 2013-2018, PerkinElmer, Inc. All rights reserved. PerkinElmer® is a registered trademark of PerkinElmer, Inc. All other trademarks are the property of their respective owners.