

Lab Testing Resources

While this document does not aim to endorse any specific brands or products, the Hach TNT methods are one of the most efficient ways to monitor process control and have been widely adopted in the wastewater treatment industry. There are two Hach methods available: the Powder Pillow method and the TNT Plus method. The Powder Pillow method is a more cost-effective option and involves adding pre-measured powder reagent packets to a tube or beaker, as opposed to using pre-filled vials. It is also more limited in terms of the range of tests it can perform and may not be as precise as the TNT Plus method, which often utilizes a spectrophotometer. However, for many process control applications, the accuracy provided by a colorimeter in the Powder Pillow method is sufficient. It should be noted that any TNT Plus test will require the purchase of a spectrophotometer, while the Powder Pillow method will require the purchase of either a colorimeter or a spectrophotometer, as both instruments can be used to read the results of this method. Before making any purchases, it is important to check the specifications and method links for each test to ensure compatibility with the instrumentation and testing methods or consult with a Company (Hach) representative.

Instrumentation	
Website Link	Description
Hach DR3900 Spectrophotometer	Compatible with TNT Plus, Powder Pillow methods, and more. Very useful for in-depth laboratory testing.
Hach DR1900 Portable Spectrophotometer	A scaled down and portable version of the DR3900.
Hach DRB200 Digital Reactor Block	Digester required for performing total phosphorus analysis opposed to ortho phosphorus.
HACH DR900 Portable Colorimeter	Portable colorimeter which is the more cost-effective approach if only running the powder pillow method.
Hach TNT Plus Test Kits	
TNT VFA Test	Test compatible with the DR3900 or DR1900. Specs and Method
TNT Phosphorus Test	Test compatible with the DR3900 or DR1900. The DRB200 will also be required for the digestion process for total phosphorus concentrations. Specs and Method
TNT Ammonia Test	Test compatible with the DR3900 or DR1900. Specs and Method
TNT COD Test	Test compatible with the DR3900 and DR1900. Specs and Method
TNT Nitrate Test	Test compatible with DR3900 and DR1900. Specs and Method
Powder Pillows	
Phosphorus Powder Pillow Test	Test compatible with DR900, DR1900, and DR3900. Specs and Method



[Nitrate Powder Pillow Test](#)

Test compatible with DR900, DR1900, and DR3900.
[Specs and Method](#)

