

## Product Guide

PCVS 04-240-02 or PCVS 04-240-03

Grinding Vial Sets combine the benefits of the microplate format and the size of vials to provide a tool for higher throughput sample grinding. Three types of Vial Sets are available, the 24 Well PC Vial Sets, 24 Well PE Vial Sets, and 15 ml Vial Sets. The 24 Well vial sets are available with both PTFE-lined and unlined caps.

The 24 Well PC Vial Sets are designed for homogenizing hard and fibrous samples (e.g., individual corn kernel). Samples should generally not exceed 0.5 grams. Each PC vial contains a large stainless steel grinding balls (3/8"), polycarbonate vial and cap. There are 10 set per case (240 vials per case).



Using the 24 Well PC Vial Sets with a mixer mill is essentially the same as using deep well plates. **The lid of the boxed vial set and foam contained within is first removed**, it can be attached later for use as a storage box. The vials are filled with no more than 0.5 ml of sample and extraction buffer. The amount of head space is very important to efficient sample homogenization. Generally the harder the substance to be ground, the less can be added to each vial. The upper mass of each sample type is best determined empirically. Vials are sealed securely with the caps. The vial set must be firmly locked into the mixer mill prior to grinding. Some mixer mills require a balancing plate, if so, a second vial set can be used or a deep well plate of equal mass.

Once balanced, grind the samples as required. This must be determined empirically, but generally this takes approximately 2 minutes at 2/3 speed.

It is possible to reuse vials, however inspect them carefully. It is common for cracks to develop in the bottom cap following grinding. Do not use cracked vials and caps.

For technical assistance, please call (908) 253-3444.