

ABSTRACT

**REFRACTOMETER WITH
SINGLE USE PRISM AND REUSABLE OPTICAL SYSTEM**

A refractometer includes an enclosure, a single use prism, a light source, and an index of refraction (IoR) sensor. The single use prism is removably disposed within the enclosure. The light source and IoR sensor are disposed within the housing and are configured to be repeatably used with a series of single use prisms of similar construction. One single use prism can be removed after being used, and a new single use prism can be installed in the enclosure for use with the same light source and IoR sensor as were used with the first prism.

[Figure 1]