**Disposable Bottle Reactor Tank**

Abstract

The invention relates to a reactor tank designed as a disposable element having a cover and/or sensor patches readable opto-electronically fixed in the interior, a reactor comprising the reactor tank and reactor tank receiving peripherals, the same comprising a reactor tank holder and optionally an opto-electronic measuring system for reading sensor patches, wherein the reactor tank holder is coupled to a drive unit for generating a rotating-oscillation motion of the reactor tank around the central vertical axis thereof, and also the use of this device for culturing cells and/or microorganisms.