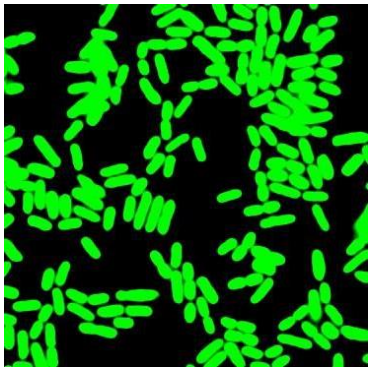
KIT TVO-Bottling

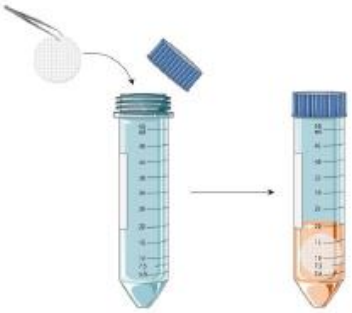
Control of sterility of filterable liquids



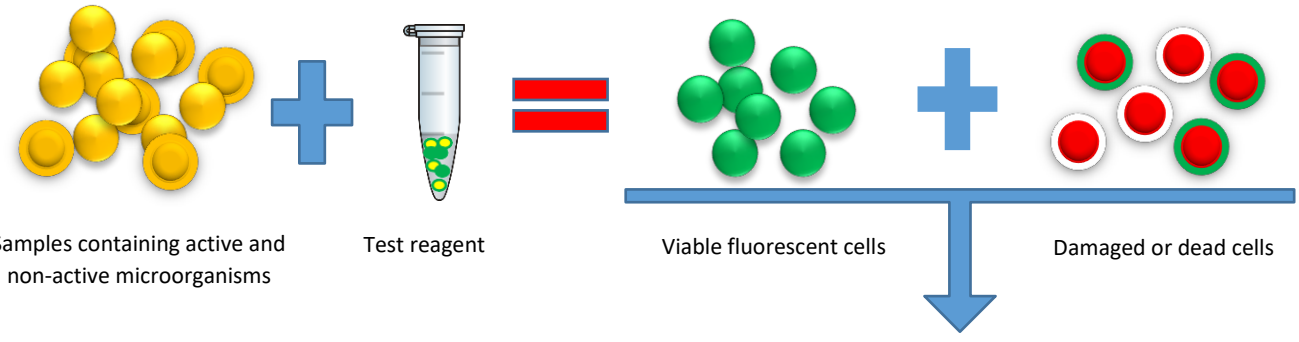
Before bottling and after the sterilization process, the enumeration of total microorganisms in liquids is particularly important to determine the quality of the product and the effectiveness of preservation processes. Conventional agar methods require at least 24 hours for bacteria and 48 hours for yeast before the analysis result is rendered.

Amarok Biotechnologies has developed a "boost" liquid culture medium associated with TVO methods to detect all residual microorganisms in up to 24 hours.
The **TVO kit** can be adapted to your existing protocols for the revitalization of spore-forming germs.

Detection principle



The filter is poured into a tube filled with "Boost" medium and incubated at room temperature or 37°C for 24 hours. Subsequently, the medium is labeled with the dye reagents.
The detection principle is based on the differential staining of living cells that are able to exclude a dye that marks dead or damaged cells. Viable microorganisms will fluoresce green and damaged or dead cells will be marked with red fluorescence



Samples containing active and non-active microorganisms

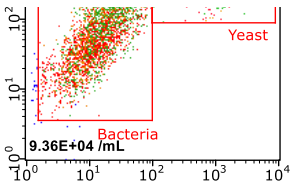
Test reagent

Viable fluorescent cells

Damaged or dead cells

Flow cytometer

Test completed in less than 30 minutes



Accurate concentration measurement