Photo Activation
Universal Light
(PAUL)

Detect only DNA from viable microorganisms

Viability PCR combines the use of photo-reactive reagents with a high affinity for DNA with a photo-chemical reaction. The nature of the reagents precludes it to pass through cell membranes. For this reason the DNA from cells with undamaged membrane will be free of photo blockage. After the treatment of microbial aqueous suspension with our reagents combined with a photo-activation step, only DNA from live microorganisms will be detected by molecular procedures: PCR, qPCR, Flow Cytometry, Fluorescence Mycroscopy, LAMP

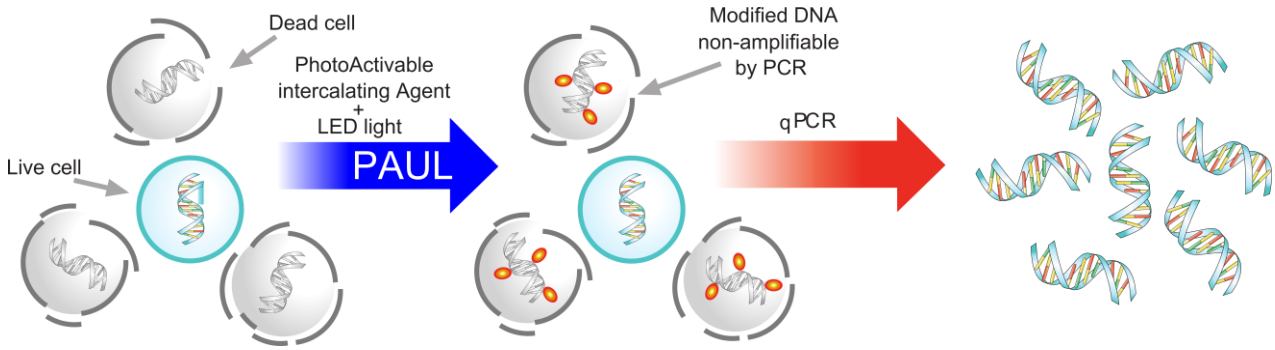

Photo Activation Universal Light system (PAUL) is the solution for precise photo-activation in Viability PCR

Efficiency

PAUL combines high power LED with the appropriate optical alignment of the reaction support to ensure the maximum efficiency in the binding of the reagent to DNA.

Reproducibility and Speed

PAUL improves reproducibility and avoids variations due to manual photo-activation. The instrument is thermally stable with a constant and uniform light dose, and allows simultaneous photo-activation multiple samples in different supports.

Flexibility

PAUL allows optimizing the DNA photo labeling by programming different parameters such as light intensities and photo-activation times. It could be used with Culture bottle, Elisa plates, and Petri dishes. With this system viability PCR could be done in high-throughput workflows, and also it could work with membrane filters.

ORDER INFO

PAUL System (Standard Support Included)	Cat. No. 90001400
Base Support-Standard	Cat. No. 900011284
Base Support-Thin	Cat. No. 900011285