CREATIVE BIOMART®
Assay Kit

DNA Repair Assay Kit

Product Information

Cat.No. Kit-1959

Size

24 dtn

Description

Base Excision Repair (BER) is the predominant repair pathway responsible for removal of small lesions from DNA, like oxidized, alkylated, deaminated bases and abasic sites. In humans, the mechanism of BER involves the initial action of DNA glycosylases followed by the processing of the resulting abasic site either by the AP-lyase activity of the bifunctional glycosylase or by the apurinic/apyrimiddic endonuclease APE1 that incises the DNA strand. BER mechanisms can be induced by oxidative stress and various genotoxic attacks. The Glyco-SPOT DNA Repair Assay is a multiplexed oligonucleotide cleavage assay developed on support. It is used to monitor simultaneously the cleavage efficiency of several glycosylases/AP endonucleases against a set of emblematic DNA lesions in cell/bacteria/tissue extracts, using fluorescent detection. The assay can be used to screen for DNA repair inhibitors, characterize DNA repair enzymatic signature from samples, check DNA glycosylase specificity, characterize DNA repair inhibitory properties of chemicals (heavy metals …)

Storage

4°C

Kit Components

A coated 24 wells glass slide pre-functionalized with support oligonucleotides: -; 1; -; Mix of duplex-oligonucleotides; Red; 1; LyophilisedHybridisation buffer x5 concentrated: Grey; 1; LyophilisedExcision buffer x5 concentrated: Blue; 1; LyophilisedWash buffer x5 concentrated: White; 1; LyophilisedPolysorbate 20 (Tween 20)10% diluted:Yellow; 1; LiquidInstruction booklet: -; 1; -

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