

DNA Damage Quantification Kit

Cat. No. Kit-0296 **Lot. No.** (See product label)

SPECIFICATION

Product Overview DNA Damage Quantification Kit is used for determining the DNA lesion and repair.

Description

Apurinic/aprimidinic (AP) sites are one of the major types of DNA lesions formed during the course of base excision and repair of oxidized, deaminated or alkylated bases. It has been estimated that about 2×10^5 base lesions are generated per cell per day. The level of AP sites in cells can be a good indicator of DNA lesion and repair against chemical damage and cell aging. The DNA Damage Quantification Kit utilizes the ARP (Aldehyde Reactive Probe) reagent that reacts specifically with an aldehyde group which is the open ring form of the AP sites. After treating DNA containing AP sites with ARP reagents, AP sites are tagged with biotin residues, which can be quantified using avidin-biotin assay followed by a colorimetric detection. The kit provides the necessary reagents for convenient determination of abasic sites in purified DNA sample in 96-well plate format.

Target Species Mammals

Usage For research use only (RUO)

Storage Store the kit at 4°C. Do not freeze.

Kit Components

ARP Solution (10 mM, in DMSO) 0.125 ml
 ITE Buffer 30 ml
 Glycogen Solution (10 g/l)
 0.1 ml
 ARP-DNA Standard (0.5 g/ml) 0.6 ml
 40 ARP-DNA Standard (0.5 g/ml) 0.6 ml
 DNA Binding Solution 10 ml
 HRP-Streptavidin 0.15 ml
 10X Wash Buffer 30 ml
 HRP Developer 10 ml
 96-well Microplate (8 x 12 strips) 1 plate

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Detection method	Colorimetric
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