

Comet Assay Kit

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CATALOG #
AAA332621

PRODUCT SYNONYMS

Comet; Comet Assay Kit; DNA damage; Comet assay kit

PRODUCT SPECIFICATIONS

Samples	Tissue, Cells
Usage Note	Do not mix or substitute reagents or materials from other kit lots or vendors.
Preparation and Storage	Stored at 4 degree C for 6 months, protected from light

ADDITIONAL INFORMATION

Related Product Information for Comet assay kit	Principle of the Assay: Comet Assay Kit (3-Well Slides) is a single cell gel electrophoresis assay (SCGE), rapid and sensitive test for detecting DNA damage in cells. The principle is that after organs or tissues have been suffered from (such as radiation, heavy metals, etc.), single strand or double strand DNA was broken in the cells, the cell is mixed with melted agarose and added on a slide, then the cell membrane is disrupted with lysis solution, the DNA is uncoiled with alkaline solution. Finally, the samples were electrophoresed, under the action of an electric field, the macromolecular DNA of normal cells migrates for a shorter distance, intact DNA remains in the range of the nucleus, broken pieces of DNA migrate out of the nucleus, stained with PI dye, observed under a fluorescence microscope, intact DNA forms a circular or slightly tailed pattern; DNA fragmentation fragments form comet-like pattern. According to the pH value of the electrophoresis buffer, it can be divided into neutral comet assay (pH=8.4) and alkaline comet assay (pH>13). Neutral comet assay was mainly used to detect the broken damage of DNA double strand, and alkaline comet assay has higher sensitivity and can be used to detect less single strand and double strand broken damage.
Product Categories/Family for Comet assay kit	Cytology; Cellular states; DNA damage

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/comet/332621>