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Резервуары для анализа ДНК-комет



Впервые представленный в 1981 году для количественной оценки разрывов двухцепочечной ДНК в одиночных клетках, подвергшихся β -облучению, анализ комет (или SCGE) с тех пор был адаптирован для анализа специфических повреждений ДНК и процессов восстановления.



Comet Assay Tanks for 10 – 40 Slides

SKU: CSL-COM

- For Single Cell Gel Electrophoresis
- Minimise exposure to light and reduce background DNA damage

- High efficiency cooling for enhanced resolution
- Compatible with ethylene glycol mixtures for cooling down to 5°C
- Cleaver Scientific Comet Assay Tanks are available in four slide formats to study single cell gel electrophoresis (SCGE), a technique made popular by drug toxicology and carcinogenesis studies for the detection and quantification of DNA damage in cells. Each tank's robust construction from ebony acrylic ensures that cells remain free of exposure to background light and DNA damage during electrophoresis, while a cooled central platform provides a convenient surface for slide preparation and control of slide temperature during the assay. Following electrophoresis DNA damage may be measured using Comet Assay scoring software.
- **Background:** First introduced in 1981 to quantify double-stranded DNA breakages in single cells exposed to irradiation, the Comet Assay (or SCGE) has since been adapted to analyse specific DNA lesions and repair processes.
- **Overview:** Following genotoxic insult, such as ionizing radiation, the resultant strand breakage of supercoiled duplex DNA reduces the size of the large genomic DNA from which these strands are separated or drawn out by electrophoresis. The genomic DNA then takes on the appearance of a comet as its negatively charged broken ends and fragments migrate towards the anode during electrophoresis.
- **Method:** After exposure to a genotoxic insult cells are suspended within low melting point agarose and embedded within a thin layer of agarose on a microscope slide. Cellular protein is then removed by lysis in detergent, when DNA is allowed to unwind in alkaline conditions before electrophoresis. The DNA is electrophoresed, stained and then analysed using software.
- **Results:** Microscopy imaging is used to measure DNA fluorescence upon staining. In DNA damaged cells the resultant image resembles a 'comet' with the cellular DNA separated into a head and tail. The head is mainly composed of intact genomic DNA, whereas any fragmented or damaged DNA is concentrated within and towards the tail.
- This unit has a 12 month limited warranty, for more information, consult our terms and conditions.

[SPECIFICATIONS](#)

SKU	CSL-COM10	CSL-COM20	CSL-COM40
Unit Dimensions (cm)	17 x 34 x 9	31 x 34 x 9	33 x 59 x 9

Slide Capacity	10	20	40
Base Buffer Volume	550	1000	2100
Typical Running Conditions	25V/300mA for 1h	25V/300mA for 1h	25V/300mA for 1h
Includes Casting Base	FALSE	FALSE	FALSE
Includes Additional Caster	FALSE	FALSE	FALSE



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Slide Chilling plate for COMET Assay

SKU: CSL-CHILLPLATE

- Custom designed and manufactured precisely for Comet Assay
- Highly compact design
- Takes 26 slides & is stackable to save space
- Increase in process speed

The Cleaver Scientific Chilling Plate has been developed in collaboration with the Oxidative Stress Group at Florida International University. It is custom designed and manufactured specifically for Comet Assay. The Chilling Plate can accommodate 26 Comet assay slides and assists in the Comet Assay process by allowing a rapid solidification of the low melting point agarose on the Comet Assay slides and facilitates easy retrieval of the slides once the agarose gels are solid.



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Ebony treatment dish, pk/1

SKU: **STAINDISH**

- Treatment dish for comet assay processing
- Works with the COMRAC-50 slide carrier
- Pack of 1

This unit has a 12 month limited warranty, for more information, consult our terms and conditions.



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Ebony treatment dish, pk/4

SKU: **STAINDISH4X**

- Treatment dish for comet assay processing
- Works with the COMRAC-50 slide carrier
- Pack of 1

This unit has a 12 month limited warranty, for more information, consult our terms and conditions.



Vertical Slide carrier for 25 slides, pk/1

SKU: **COMRAC-25**

- Holds 25 standard microscope slides
- Speeds up comet assay processing
- Works with comet assay staining dishes and COMPAC-50 electrophoresis system

This slide carrier is a direct replacement for those included with the COMPAC-50 high throughput comet assay system. It holds 25 standard microscope slides and helps to speed up the comet assay by reducing manual handling of slides. The carriers are made from ebony acrylic and are compatible with comet assay reagents.

This unit has a 12 month limited warranty, for more information, consult our terms and conditions.

Product Includes: Slide Carrier

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