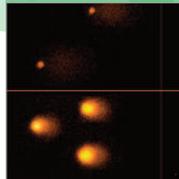




comPAC-50



A high throughput electrophoresis system, to perform the Comet Assay otherwise known as Single Cell Gel Electrophoresis



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- Patented design uses vertical slide orientation to increase throughput
- Slide carriers eliminate manual handling decreasing errors and assay time.
- Ten staining dishes supplied for batch-treatment of slides during the lysis, neutralisation, staining and washing steps
- Ebony acrylic construction ensures reduced exposure to background light and potential DNA damage
- Highly compact design optimises electrophoresis efficiency during Comet Assay

Developed in collaboration with the Oxidative Stress Group in the Department of Cancer Studies and Molecular Medicine within the University of Leicester, the COMPAC-50 is a high throughput electrophoresis system, to perform the Comet Assay, otherwise known as Single Cell Gel Electrophoresis.

A unique patented design employs two carriers to hold a total of 50 slides (25 per carrier) vertically. This provides two distinct advantages over conventional Comet Assay systems that utilise a horizontal platform for manual mounting of multiple individual slides. Firstly to produce a highly compact system which saves 75% of Lab space. Secondly by holding 25 slides in a rack this allows slides to be processed together in one batch saving on assay handling time by up to 90%. Consequently, this is not only beneficial for electrophoresis but also in the lysis, neutralisation, staining and washing steps of the Comet Assay, when each batch of slides may be treated during each step respectively using the four ebony acrylic staining dishes supplied. In addition, the COMPAC-50 benefits from a high performance ceramic cooling base with sliding drawer to accommodate a cool pack, which is frozen before use, to maintain optimal buffer temperature.

COMPAC-50

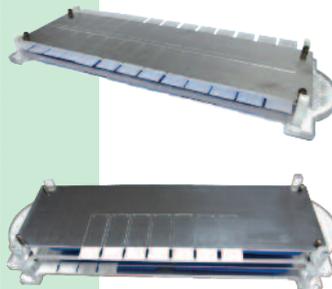


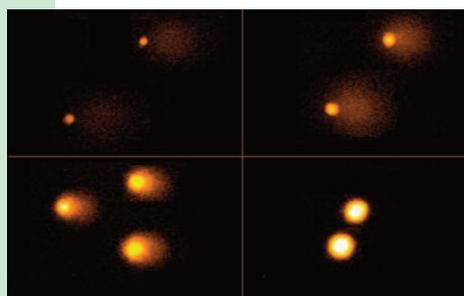
Image shows two assembled Chilling Plates with sample slides in position

This Chilling Plate 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 rapid retrieval of the slides once the agarose gels are solid.



TECHNICAL SPECIFICATIONS

UNIT DIMENSIONS (WxLxH)	26.5 x 15 x 15CM
TOTAL SLIDE CAPACITY	50 SLIDES 25 x 75MM
SLIDE CAPACITY PER RACK	25
VOLUME	550 ML
RECOMMENDED POWER SUPPLY	POWERPRO300 300V, 700mA, 150W



Typical Results

Repair of UVB-induced DNA damage in human keratinocytes, using enzyme-modified comet assay. HaCaT cells were irradiated with 1 J/cm² UVB, then allowed to repair in fresh medium and DNA damage analysed at different time points (A) 0 h, (B) 1 h, (C) 6 h, (D) unirradiated (courtesy of Karbaschi, M. University of Leicester, Leicester, UK).

ORDERING INFORMATION

COMPAC-50	High Throughput Comet System for 50 slides, includes 2x 25 slide carriers, 4x staining dishes, tank with ceramic cooling platform and cool pack, lid and power cables	STAINDISH	Ebony acrylic stain dish, pk/1
		STAINDISH4X	Ebony acrylic stain dish, pk/4
COMPAC50-PP300	COMPAC-50 and powerPRO300 Power Supply 300V, 700mA, 150W	COMPAC- 50-PE	Positive electrode
		COMPAC- 50-NE	Negative electrode
COMRAC-25	Vertical slide carrier for 25 slides, pk/1	CSL-LMA50	Agarose 50g. Low melting point

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