



EcoSep

Economic Separations



www.ecosep.in

Horizontal Electrophoresis Apparatus

Vertical Electrophoresis Apparatus

Electroblotting Apparatus

Gel-Documentation

Power Supplies

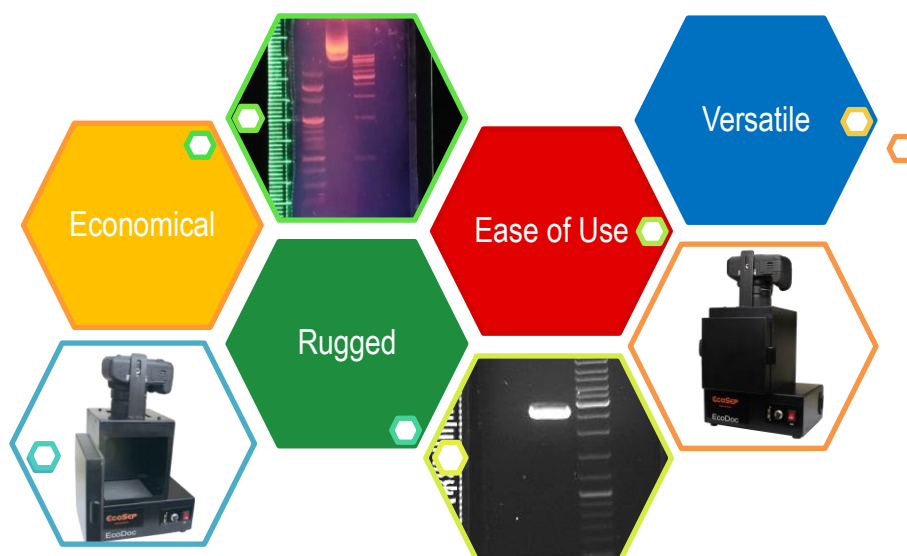
Micropipettes

Minipipettes

pH Meters

**Gel Documentation System
Product Catalog**

***ECONOMIC RANGE
GEL DOCUMENTATION SYSTEMS
SALIENT FEATURES***



Rugged

- Rust free aluminium body with high quality powder coating is used
- Long life tubes > than 3000 hours of operation without damaging the filter or tubes
- No corrosion of filters or rusting as high quality materials have been used

Ease of use

- Computer controllable camera with multiple user facility
- Simple camera alignment
- Small size of the base occupies less space on the lab bench and allows easy access and movement.

Economical

- Smaller filters and tubes to reduce cost
- Simple DSLR camera to ensure low cost but great performance
- PMMA filters for UVA tubes
- Saves cost as simple components and spares are used.

Verstile

- Can be operated with any camera which can accept 58 mm filters
- Upgradable to multiple types of UV wavelengths and different types of bandpass filters
- Easy to change low-cost filters for different DNA binding dyes

ECONOMIC RANGE
GEL DOCUMENTATION SYSTEMS
SELECTION GUIDE

Model	Window Size		No. of UVA tubes	UV tube wattage	Camera type	Camera MP	White light source
	width (cm)	depth (cm)					
ECODOC 1 E3560500	10	10	4	4 W each	Computer controllable	18 MP	Optional
ECODOC 1 E3561000	18	15	6	6 W each	Computer controllable	18 MP	Optional

All EcoDocs come along with a red filter on the camera. For visualizing dyes other than EtBr, enquire by sending us an email at sales@techresource.in regarding the filter required.

ECODOC 1

Gel documentation system

- ✓ UV-transparent diffuser window, 10 x 10 cm
- ✓ Switch for dual intensity of UV-light
- ✓ Compact viewing hood
- ✓ Door to manually access gel for band excision
- ✓ Trans-illumination for taking images in the UV range
- ✓ 366 nm UVA tubes (4 W, 4 tubes)



EcoDoc 1

Features of this apparatus

Rugged

- Non-brittle filter made of plastic which does not crack easily
- No solarization i.e., UV-transparency of UV-transparent diffuser window is unchanged over time

High Sensitivity

- Visual detection limit 1 ng per compact band of EtBr stained dsDNA due to intensity of UVA tubes
- UV-transparent diffuser allows 85-90% of the UV to pass through
- Dual (Hi-Lo) mode for viewing. Go to Hi-mode only when required

Safety

- No skin burns or damage to normal retina's as UVA tubes emit light similar to light found outdoors
- Negligible phot-nicking or photo-bleaching of DNA due to use of lower energy UVA tubes

Economical

- Low capital cost and spares
- Does not need costly UV-transparent violet filter

Ready-to-use system includes

1. Lower housing unit with a UV-transparent window
2. Four UVA-tubes of 4 W each
3. A compact hood with attachment for camera
4. Door to manually position and access the gel
5. A digital colour camera with filters and CMOS sensor for capturing high resolution images in low light conditions
6. A switch to select between High-Low UVA light
7. Software for controlling camera via computer
8. Instruction manual

Ordering description

EcoDoc 1 (E3560500): ready-to-use gel documentation system.

Trans-illumination with UVA light source and hi-lo light intensity control, 10 x 10 cm illumination area. Hood fitted with computer controllable 18 MP DSLR camera and filters, and software adapted for EcoDoc.

SUGGESTION

Order along with the system a chroma-filter for viewing the gel without the camera.

EcoDoc and its spares and accessories

Item Description	Cat. No.	Unit
EcoDoc, ready-to-use gel documentation system. Trans-illumination with UVA light source and hi-lo light intensity control, 10 x 10 cm illumination area, with 18 MP DSLR computer controllable camera with acquisition software and analysis software.	E3560500	System

ECODOC 2

Gel documentation system

- ✓ UV-transparent diffuser window, 18 x 15 cm
- ✓ Switch for dual intensity of UV-light
- ✓ Compact viewing hood
- ✓ Door to manually access gel for band excision
- ✓ Trans-illumination for taking images in the UV range
- ✓ 366 nm UVA tubes (6 W, 6 tubes)



EcoDoc 2
(representational image)

Features of this apparatus

Rugged

- Non-brittle filter made of plastic which does not crack easily
- No solarization i.e., UV-transparency of UV-transparent diffuser window is unchanged over time

High Sensitivity

- Visual detection limit 1 ng per compact band of EtBr stained dsDNA due to intensity of UVA tubes
- UV-transparent diffuser allows 85-90% of the UV to pass through
- Dual (Hi-Lo) mode for viewing. Go to Hi-mode only when required

Safety

- No skin burns or damage to normal retina's as UVA tubes emit light similar to light found outdoors
- Negligible phot-nicking or photo-bleaching of DNA due to use of lower energy UVA tubes

Economical

- Low capital cost and spares
- Does not need costly UV-transparent violet filter

Ready-to-use system includes

1. Lower housing unit with a UV-transparent window
2. Six UVA-tubes of 6 W each
3. A compact hood with attachment for camera
4. Door to manually position and access the gel
5. A digital colour camera with filters and CMOS sensor for capturing high resolution images in low light conditions
6. A switch to select between High-Low UVA light
7. Software for controlling camera via computer
8. Instruction manual

Ordering description

EcoDoc 1 (E3561000): ready-to-use gel documentation system.

Trans-illumination with UVA light source and hi-lo light intensity control, 18 x 15 cm illumination area. Hood fitted with computer controllable 18 MP DSLR camera and filters, and software adapted for EcoDoc.

SUGGESTION

Order along with the system a chroma-filter for viewing the gel without the camera.

EcoDoc and its spares and accessories

Item Description	Cat. No.	Unit
EcoDoc, ready-to-use gel documentation system. Trans-illumination with UVA light source and hi-lo light intensity control, 18 x 15 cm illumination area, with 18 MP DSLR computer controllable camera with acquisition software and analysis software	E3561000	System

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