

# KlerReveal

## Operator Training Kit

### A Training and Cleaning Validation Kit

#### Advantages

##### ■ Visual and immediate results

KlerReveal enables you to demonstrate immediately to an operator that there is a problem with a particular disinfection technique. Artificial “contamination” is instantly clearly visible under the UV light as coloured luminescence contrasting against the UV light.



##### ■ Technician training

The KlerReveal Operator Training Kit can be used to demonstrate to technicians the key aspects of contamination control. These include:

How easily contamination can be spread  
The importance of correct hand washing  
Correct “spray and wipe” transfer disinfection techniques

##### ■ Identify contamination risks

KlerReveal can be used to evaluate various contamination risks, for example through pin-prick holes in gloves, or the spread of contamination in specific areas. A pack of 5 different coloured powders and brushes is available making the identification of contamination from different sources clearly visible.

##### ■ Easy to use

The equipment does not require any special training to operate and is supplied with full instructions.

##### ■ Cost effective

KlerReveal is an invaluable ally in improving contamination control techniques and reducing the risk of costly errors in production.

## Description

The KlerReveal Operator Training Kit offers a range of key items suitable for all types of contamination control training. This includes powder and lotion containing artificial “contamination” that illuminates under UV light and a light box or hand held torch to cast UV light over the area and reveal the contamination.

The KlerReveal Training Kit consists of:

- UV LED light box
- KlerReveal Hand Held 4W UV Torch (requires AA batteries)
- KlerReveal Red UV Glow Powder
- KlerReveal UV Glow Hand Cream
- 1 brush
- Bag for carrying the light box



The KlerReveal Pack of 5 Colour Powders and Brushes includes 5 different coloured powders, so that you can select different colours to highlight contamination from different sources clearly, plus applicator brushes. This can also be used independently of the training kit, in conjunction with the Klercide UV Validation Torch.

**Note: the KlerReveal cannot be used to detect real contamination, it is suitable for detecting non-viable contamination.**

## Applications for Hand Hygiene

### Evaluate or teach cleaning procedures

To find out if a cleaning procedure is correct, or to train staff in correct procedures, simply artificially “contaminate” the hands with the lotion and then ask your operators to wash them as they would normally. Cast the UV light over the "clean" hands and any remaining particles of artificial contamination will glow. The presence of artificial contamination indicates that the cleaning procedure has not been 100% effective.

### Check your cleanroom gloves

Find out whether your glove combination is effective at preventing contamination when pin holes occur, by coating your hands with a small amount of lotion or powder, putting on the gloves and carrying out several manipulations in the usual way. Then cast the UV light over the outside of the gloves to see whether any artificial contamination has come through the holes.

Equally, you can evaluate how much protection your gloves are giving to your operators against hazardous chemicals, by coating the outside of the gloves with lotion or powder, carrying out several manipulations and then removing the gloves and checking for "contamination" on the operators' hands.

## **Applications for Surfaces**

### **Evaluate or teach cleaning procedures**

To find out if a cleaning procedure is correct, or to train in correct procedures, simply artificially “contaminate” the medical components or surface with the powder and then ask your operators to clean as they would normally. Cast the UV light over the "clean" area and any remaining particles of artificial contamination will glow. The presence of artificial contamination indicates that the cleaning procedure has not been 100% effective.

### **Evaluate or teach transfer disinfection procedures**

To find out if a transfer disinfection procedure is correct, or to train in correct procedures, “contaminate” the items to be transferred with powder, including around the seals and opening flaps and then ask your operators to disinfect them as they would normally. Cast the UV light over the items and if any remaining particles of artificial contamination glow then the procedure has not been 100% effective.

### **Evaluate or teach production procedures**

To find out if a production procedure is correct, or to train in correct procedures, “contaminate” each raw material with a different colour powder from the KlerReveal pack of 5 colour powders and then ask your operators to carry out the procedure as they would normally. Cast the UV light over the finished items and if any remaining particles of artificial contamination glow then the procedure has not been 100% effective and can be traced back to the source by the colour.

### **Demonstrate environmental contamination**

For aseptic techniques or to demonstrate environmental contamination, sprinkle the powder on the surface. Ask your operators to carry out the appropriate procedure as they would normally. The UV light can be used to demonstrate any spread of the artificial contamination or show where sterile materials have become "contaminated".

### **Illustrate the ease of cross contamination**

The ease of cross contamination can be easily highlighted to new technicians by applying a fine layer of powder to a surface which is likely to be in contact with a number of trainees, e.g. teaching notes, pens, a table surface etc. After a few minutes, darken the room and use the hand held UV torch to see where the “contamination” has been spread.

This technique can also be used in an area in which technicians are asked to show an aseptic procedure being carried out. Again without their knowledge, contaminate the working surface and the UV torch will show if any "contamination" has been transferred during the process.

Alternatively, products can be coated with the powder and the UV torch used to show if they have made contact inappropriately with non-sterile surfaces and become contaminated.

## **Health and Safety**

All our UV light equipment is supplied with comprehensive operation instructions – including maximum permissible exposure times for the unprotected skin and eye at specified distances from the UV lamp, enabling strict compliance with new EU rules, defined by the Optical Radiation Directive 2006/25/EC.

## Validation

Supplied by an ISO 9001:2008, ISO 13485:2012 and European Medical Device Directive 93/42/EEC accredited company.

MSDSs available on request for the powder and cream.

## Product Codes

CODE	DESCRIPTION	SIZE	UNIT OF SALE
3056550	KlerReveal Operator Training Kit		1
3059120	KlerReveal Operator Training Kit (EU version)		1
3056540	KlerReveal Five Colour Powder Training Kit		1
3056570	KlerReveal Replacement Red UV Glow Powder for use with 3056550	50g	4 x 50 g
3056580	KlerReveal Replacement UV Glow Cream for use with 3056550	200ml	4 x 200ml
3056590	KlerReveal Hand Held 4W UV Torch		1