

Equipment Operation Procedure

| Document N | Number: SASoM/EQUIP/094.v2 |
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| Title: | Clare Chemical Dark Reader (Non-UV Transilluminator) |
| Version: | v2 |
| Name: | Peter Mullen |

| Effective from: | 01/02/2020 | |
|-----------------|------------|--|
| Valid to: | 31/01/2025 | |
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| SOP History | | |
|-------------|------------|---------------------|
| Number | Date | Reason for Change |
| v1 | 01/02/2015 | Original |
| v2 | 01/02/2020 | Quinquennial Update |
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1.0 Purpose –

The purpose of this SOP is to outline the principles of the routine use of the Clare Chemical Dark Reader (Non-UV transilluminator) in Laboratory 248 at the St Andrews School of Medicine (SASoM).

2.0 Scope -

This SOP applies to routine use and maintenance of the Clare Chemical Dark Reader (Non-UV transilluminator) within the SASoM.

3.0 Responsibilities -

It is the responsibility of all users of the Clare Chemical Dark Reader (Non-UV transiluminator) within the SASoM to comply with this SOP. <u>NEVER USE ETHIDIUM</u> BROMIDE STAINED GELS ON THE CLARE CHEMICAL DARK READER.



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4.0 Procedure –

The Dark reader can be used for visualising fluorescently stained DNA, proteins, and other biological samples using a visible light source that excites fluorophores between 420-500nm. It consists of a visible light source and associated electronics housed in a box. An amber cover plate is provided which should be in place while viewing the sample.

The machine is turned ON/OFF using the black button on the side of the box.



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If excising a gel band, there are amber glasses that should be worn, while the amber cover plate has been removed. If available, a glass plate should be placed on the dark reader, with the gel on top for cutting out bands (to protect the dark reader blue screen).

5.0 Personal protection

Howie coat must be worn at all times. Gloves must always be worn. Appropriate Dark Reader amber vision glasses must be worn when cutting out a band on the dark reader. Otherwise, the Amber screen must be in place for viewing the band. Although this is not a UV light source, care should be taken whilst using the Dark reader.

6.0 Training –

All users have to be trained before using the Instrument by a designated person.

7.0 Related documents -

7.1 Instruction Manual





8.0 Approval and sign off -

| Author: | | |
|-----------------|-----------------|-------|
| Name: | Peter Mullen | |
| Position: | Research Fellow | |
| Signature: | | Date: |
| | | |
| Management Appr | oval: | |
| Name: | Peter Mullen | |
| Position: | Research Fellow | |
| Signature: | | Date: |
| | | |
| QA release by: | | |
| Name: | Alex MacLellan | |
| Position: | QA Manager | |
| Signature: | | Date: |
| | | |





Equipment Operation Procedure

STANDARD OPERATING PROCEDURE

Please sign below to indicate you have read this S.O.P and understand the procedures involved.

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