

The photographic Film and the Production of the Image.

A very thin film of Silver Collodion emulsion is used as the photographic medium. The emulsion is prepared as follows:

A

Lithium chloride (LiCl X 5H ₂ O)-----	5g
Distilled water-----	20ccm
Alcohol, 96 per cent-----	70ccm

B

Silver nitrate-----	24g
Distilled water-----	30ccm
Alcohol-----	60 ccm

C

Citric acid-----	12 g
Alcohol-----	50 ccm
Ether-----	50 ccm

Three collodion solutions are prepared from the above solutions:

1

Collodion, 2 per cent-----	100 ccm
Solution A-----	14 ccm

2

Collodion, 2 per cent-----	100 ccm
Solution B-----	14 ccm

3

Collodion, 2 per cent-----	100 ccm
Solution C-----	14 ccm

The final solution for use is made by mixing these three solutions as follows:

Collodion Solution 1-----	3 ccm
Collodion Solution 2-----	4 ccm
Collodion Solution 3-----	3 ccm

The emulsion keeps for a long time. A glass plate such as a microscope cover slide, is flowed with this emulsion in the usual way. Larger plates may be made and cut into small pieces and edged with rubber cement or shellac to prevent frilling. If the image is to remain on glass, plate should be first flowed with a 1 per cent solution of gelatine, so that the delicate collodion film will adhere. After exposure has been made, a drop of ordinary toning or fixing bath is used. Watch toning process with lens. When toning is complete wash quickly and dry.