

ILFOCOLOR C-41 Negative Developing Kit (2.5L working solution) is a chemical processing kit for color negative films. Designed for rotary processing, reel tank and also deep tank processing. When processing film manually, best results can be achieved with precise temperature control and agitation.

The C-41 Developing Kit is in a concentrated form to make a max of 2.5L working solution, allowing for processing of up to 40 rolls of film (135-36exp or 120 films). ILFOCOLOR C-41 Kit achieves lower environmental load and provides excellent developing performance.

1. ILFOCOLOR C-41 2.5L kit contents

| Process | Chemical names | Bottles | Stock solution | Working solution | Capacity |
|------------|----------------|---------|----------------|------------------|----------------------------|
| Color dev. | N1 : CD Part-A | 1 | 250ml x1 | For 2.5L | 40rolls/ 135-36exp, 120 |
| | N1 : CD Part-B | 1 | 200ml x1 | | |
| | N1 : CD Part-C | 1 | 25ml x1 | | |
| Bleach | N2 : BL | 1 | 1250ml x1 | For 2.5L | |
| Fixer | N3 : FX | 1 | 525ml x1 | For 2.5L | |
| Stabilizer | N4 : STB | 1 | 25ml x1 | For 2.5L | |

- 2.5L of working solutions can be made by diluting the stock solutions above.
- It is possible to make the required amount of working solutions by measuring the necessary volume of stock solutions according to the amount of films to be processed.

Please note that

- The stock solution of N1: CD bottles are divided into Part-A, Part-B and Part-C bottles.
- See precautions indicated on each label on bottles or packaging.

2. How to make working solutions

- Please measure the amount of water accurately and warm up water to $30\pm 5^{\circ}\text{C}$ before you dilute stock solutions.
- If you need to store the working solution for a while, it should be placed in an airtight bottle to avoid oxidization.

C41 2.5L

Manufactured by

ILFORD JAPAN CO., LTD

19-1, Narihira 2-Chome, Sumida-ku
Tokyo 130-0002, Japan

<http://www.ilford.co.jp> <http://www.ilford.com>

- **DO NOT MIX THE CHEMICALS** with each other as toxic gas and heat may be generated.
- Appropriate results cannot be given even if a very small amount of other processing solution is contaminated into "Color developer solution".

To make 2.5L of working solutions

| Process | Chemicals | water | Part-A | Part-B | Part-C | Total |
|------------|-----------|--------|----------|---------|--------|----------|
| Color dev. | N1 : CD | 2025ml | + 250ml | + 200ml | + 25ml | = 2500ml |
| Bleach | N2 : BL | 1250ml | + 1250ml | - | - | 2500ml |
| Fixer | N3 : FX | 1975ml | + 525ml | - | - | 2500ml |
| Stabilizer | N4 : STB | 2475ml | + 25ml | - | - | 2500ml |

- **8dadg9Zk** / Pour Part-A 250ml (1 bottle) into 2025ml of water and stir to be clear solution and then add Part-B 200ml (1 bottle) to be clear solution. Finally, add part-C 25ml (1 bottle) and stir it to be 2500ml of N1: CD working solution.
- **7āVXj** / pour 1 bottle (1250ml) of N2: BL stock solution into 1250ml of water and stir it to be 2500ml of working solution.
- ; **mZg** / Pour 525ml (1 bottle) of N3: FX stock solution into 1975ml of water and stir it to be 2500ml of working solution.
- **HVWabZg** / Pour 25ml (1 bottle) of N4: STB stock solution into 2475ml of water and softly stir it to be 2500ml of working solution.
- The working solution can be stored according to the instructions 4 below.

To make 1.25L of working solutions

| Process | Chemicals | water | Part-A | Part-B | Part-C | Total |
|------------|-----------|----------|-----------|---------|----------|----------|
| Color dev. | N1 : CD | 1012.5ml | + 125ml | + 100ml | + 12.5ml | = 1250ml |
| Bleach | N2 : BL | 625ml | + 625ml | - | - | 1250ml |
| Fixer | N3 : FX | 987.5ml | + 262.5ml | - | - | 1250ml |
| Stabilizer | N4 : STB | 1237.5ml | + 12.5ml | - | - | 1250ml |

C41 2.5L

Manufactured by

ILFORD JAPAN CO., LTD

19-1, Narihira 2-Chome, Sumida-ku
Tokyo 130-0002, Japan

<http://www.ilford.co.jp> <http://www.ilford.com>

- Stock solution can be measured to make the required working solutions in accordance with the amount of films to be processed.
- It is possible to process 20 rolls of films at most when using 1.25L of working solutions.
- The remaining stock solutions can be stored in the original bottles.

To make 1L of working solutions

| Process | Chemicals | water | Part-A | Part-B | Part-C | Total |
|------------|-----------|---------|---------|--------|--------|--------|
| Color dev. | N1 : CD | 810ml + | 100ml + | 80ml + | 10ml = | 1000ml |
| Bleach | N2 : BL | 500ml + | 500ml | - | - | 1000ml |
| Fixer | N3 : FX | 790ml + | 210ml | - | - | 1000ml |
| Stabilizer | N4 : STB | 990ml + | 10ml | - | - | 1000ml |

- If a small amount of film is to be processed, it is possible to make a reduced amount of working solution.
- Example, the chart above shows how to make 1L of working solutions to process 16 rolls of film at most.
- If you want to process less films, the amount of water and stock solutions can be calculated accordingly, but please note the minimum amount of working solutions may be required depending on the processing methods you use.

3. Processing condition (with 1L of working solution, 135-36exp)

Time and Amount to process 135-36exp · 120 films

| Process | Chemicals | temp.(°C) | 1st Time | 2nd Time | 3rd Time | 4th Time |
|------------|-----------|------------|----------|----------|-----------|------------|
| | | | 1~4rolls | 5~8rolls | 9~12rolls | 13~16rolls |
| Color dev. | N1 : CD | 38.0 ± 0.3 | 3'15" | 3'30" | 3'45" | 4'00" |
| Bleach | N2 : BL | 38 ± 3 | 6'30" | 7'00" | 7'30" | 8'00" |
| Fixer | N3 : FX | 38 ± 3 | 4'20" | 4'20" | 4'20" | 4'20" |
| Wash | tap water | 24~41 | 3'00" | 3'00" | 3'00" | 3'00" |
| Stabilizer | N4 : STB | 24~41 | 1'00" | 1'00" | 1'00" | 1'00" |

- To avoid a temperature drop and prepare your film, you need to warm the tank up. Fill your tank, with the film inside, with 38°C water and leave for 5 minutes before starting to

C41 2.5L

Manufactured by

ILFORDJAPAN CO.,LTD

19-1, Narihira 2-Chome, Sumida-ku
Tokyo 130-0002, Japan

<http://www.ilford.co.jp> <http://www.ilford.com>

develop. After the 5 minutes, pour the water away.

- The chart above shows a guide of processing condition in case 1L of working solution is used to process films.
- The processing times changes in accordance with the amount of film to be processed in a working solution to be prepared.
- It may be required to adjust the developing time depending on the way of developing method.
- The films must be processed in the complete darkness until the end of Bleach processing (N2: BL).
- The times indicated in the chart include 10 sec of the interval time while draining solutions between a process to next process.
- In case failure is found on film base color, it may be suspected that small amount of bleach or fixer solution is contaminated into Color developer.

4. Storage condition

| Process | Chemicals | Stock solution in bottles opened once | working solution |
|------------|-----------|---------------------------------------|------------------|
| Color dev. | N1 : CD | 12 weeks | 1 week |
| Bleach | N2 : BL | 24 weeks | 24 weeks |
| Fixer | N3 : FX | 24 weeks | 24 weeks |
| Stabilizer | N4 : STB | 24 weeks | 24 weeks |

Note: Once the original bottles are opened, please store the stock solutions in the original bottles in a dark and cool place.

C41 2.5L

Manufactured by

ILFORD JAPAN CO., LTD

19-1, Narihira 2-Chome, Sumida-ku
Tokyo 130-0002, Japan

<http://www.ilford.co.jp> <http://www.ilford.com>

2023.11