

ILFOCOLOR ECN-2 Developing Kit (2.5 L 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 processing chemicals are supplied in both a concentrated solution and in powder form to make each processing solutions up to 2.5L allowing for processing of up to 30 rolls of ECN-2 film (135-36exp) in total. ILFOCOLOR ECN-2 Developing Kit achieves lower environmental load and provides excellent developing performance.

1. Contents of ILFOCOLOR ECN2 2.5L Developing Kit

Process	Chemicals	Bottles/ Pack	Stock solution / powder	Working solution	Capacity
Pre Bath	C1 : PRE BATH	1	300g x1	For 2.5L	30rolls/135-36exp, 48m / 135
Color dev.	C2 : CD Part-A	1	500ml x1	For 2.5L	
	C2 : CD Part-B	1	50ml x1		
Stop	C3 : STOP BATH	1	100ml x1	For 2.5L	
Bleach	C4 : BL Part-A	1	100g x1	For 2.5L	
	C4 : BL Part-B	1	250ml x1		
Fixer	C5 : FX	1	525ml x1	For 2.5L	
Stabilizer	C6 : 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 required volume of working solutions by measuring volume of stock solutions according to the number of films to be processed.

Please note that

- The stock solutions of Color developer are divided into Part-A and Part-B bottles.
- The Bleach chemicals are divided into Part-A in powder and Part-B in liquid. Pre
- Pre Bath and Bleach Part-A chemicals are supplied in powder form.
- The precautions are indicated on each label on bottles and packaging.

注意事項

* 注意

- Please measure the amount of water accurately and warm up water to $30\pm 5^{\circ}\text{C}$ before you dilute your stock solutions.
- If you need to store the working solution for a while, it should be placed in an airtight bottle to avoid oxidization.
- **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	Total
Pre Bath	C1 : PRE BATH	2450ml	+ 300g		= 2500ml
Color dev	C2 : CD	1950ml	+ 500ml	+ 50ml	= 2500ml
Stop	C3 : STOP BATH	2400ml	+ 100ml		= 2500ml
Bleach	C4 : BL	2200ml	+ 100g	+ 250ml	= 2500ml
Fixer	C5 : FX	1975ml	+ 525ml		= 2500ml
Stabilizer	C6 : STB	2475ml	+ 25ml		= 2500ml

- **Pre Bath:** Dissolve a pack of Pre Bath chemical (300g of powder) into 2450ml of water to make 2500ml of working solution. Please warm the water up to 35°C if it is difficult to dissolve it.
- **Color Developer:** Pour a bottle of Part-A (500ml) into 1950ml of water and stir to make the solution transparent and then add a bottle of Part-B (50ml) and stir it to make 2500ml of Color developer working solution.
- **Stop bath:** pour a bottle of Stop Bath (100ml) into 2400ml of water and stir it to make 2500ml of working solution.
- **Bleach:** Use a pack of Part-A (100g) into 2200ml of water and thoroughly stir to dissolve it and then add a bottle of Part-B (250ml) and stir it to make 2500ml of Bleach working solution.
- **Fixer:** Pour a bottle of Fixer stock solution (525ml) into 1975ml of water and stir it to make 2500ml of working solution.
- **Stabilizer:** Pour a bottle of Stabilizer stock solution (25ml) into 2475ml of water and softly stir it to make 2500ml of working solution.
- The working solution can be stored in accordance with the instructions 4 below.

ECN2 2.5L

Manufactured by

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In case to make 1.25L of working solutions

Process	Chemicals	Water		Part-A	Part-B	Total
Pre Bath	C1 : PRE BATH (*1)	2450ml	+	300g		= 2500ml
Color dev	C2 : CD	975ml	+	250ml	+ 25ml	= 1250ml
Stop	C3 : STOP BATH	1200ml	+	50ml		= 1250ml
Bleach	C4 : BL	1100ml	+	50g	+ 125ml	= 1250ml
Fixer	C5 : FX	988ml	+	263ml		= 1250ml
Stabilizer	C6 : STB	1238ml	+	12.5ml		= 1250ml

- (*1) Always dissolve whole amount of Pre Bath powder pack in water to make 2.5L of working solution.
- Required quantities of Stock solutions can be measured to make required volume of working solutions in accordance with the number of films to be processed. However, please always dissolve whole amount of Pre Bath powder pack in water to make 2.5L of working solution because of deviations of powder components in a pack. (Pre Bath working solution can be stored for 24 weeks.)
- It is possible to processes 15 rolls of 135x36EXP films at most with using 1.25L of working solutions.

To make 1L of working solutions

Process	Chemicals	Water		Part-A	Part-B	Total
Pre Bath	C1 : PRE BATH (*1)	2450ml	+	300g		= 2500ml
Color dev	C2 : CD	780ml	+	200ml	+ 20ml	= 1000ml
Stop	C3 : STOP BATH	960ml	+	40ml		= 1000ml
Bleach	C4 : BL	880ml	+	40g	+ 100ml	= 1000ml
Fixer	C5 : FX	790ml	+	210ml		= 1000ml
Stabilizer	C6 : STB	990ml	+	10ml		= 1000ml

- (*1) Dissolve the whole amount of Pre Bath powder in water to make 2.5L of working solution.
- If a small amount of film is to be processed, it is possible to make a reduced amount of working solution. However, please always dissolve whole amount of Pre Bath powder pack in water to make 2.5L of working solution because of deviations of powder components in pack.
(Pre Bath working solution can be stored for 24 weeks.)
- The chart above shows how to make 1L of working solutions to process up to 12 rolls of 135x35exp film. 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.

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

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

Process	Chemicals	Temp.(°C)	Times setting & number of films		
			1st Time	2nd Time	3rd Time
			1~4 rolls	5~8 rolls	9~12 rolls
Pre Bath	C1 : PRE BATH	27 ± 1	0'10"	0'10"	0'10"
Rem-Jet removal	tap water	27~38	Wash with water until water becomes clear.		
Color dev.	C2 : CD	41.0 ± 0.2	3'00"	3'15"	3'30"
Stop	C3 : STOP BATH	27~38	0'30"	0'30"	0'30"
Wash	tap water	27~38	0'30"	0'30"	0'30"
Bleach	C4 : BL	38 ± 1	3'00"	3'15"	3'30"
Wash	tap water	27~38	1'00"	1'00"	1'00"
Fixer	C5 : FX	38 ± 1	2'00"	2'00"	2'00"
Wash	tap water	27~38	2'00"	2'00"	2'00"
Stabilizer	C6 : STB	27~38	0'10"	0'10"	0'10"

- The chart above shows a guide of processing condition in case 1L of working solution is used to process films.
- It is possible to process up to 12 rolls of 135x35exp films with 1L of working solution but the processing times may be changed in accordance with the number of films to be processed.
- The developing time may be adjusted depending on the way of developing method.
Films must be processed in the complete darkness until the end of Stop processing (Stop bath).
- The processing 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 was contaminated into Color developer working solution.

4. Storage condition

Process	Chemicals	Stock solution in bottles opened once	Working solutions
Pre bath	C1 : PRE BATH	-	24 weeks
Color dev.	C2 : CD	12 weeks	1 week
Stop	C3 : STOP BATH	24 weeks	24 weeks
Bleach	C4 : BL	24 weeks	1 week
Fixer	C5 : FX	24 weeks	24 weeks
Stabilizer	C6 : 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.