

a pretty good fog in the hydroquinone. After fixing, it showed that the rodinal plate gave a printable negative; the hydroquinone plate, on the contrary, was very hard, had thin glassy shadows and a strong yellow fog. The other still less exposed plates showed a still more remarkable difference. The yellow fog in the shadows of the hydroquinone plate was so dense that it acted darker than the half-tones, while the rodinal plate had hardly observable traces of a discoloration. The first experiment showed further, that in the rodinal several plates can be developed without essential difference in density and hardness.

Regarding the durability of the rodinal developer the following is to be remarked: According to the declarations of the aniline factory the time of durability is unlimited; in well-corked bottles it will remain colorless for a long time. About the diluted developer I made personally the following tests:

If the concentrated developer is diluted with water containing air, a light yellow liquid is obtained, which can be kept in the graduate glass almost unchanged. Only after two days the color passes from a light orange to red-brown, while small crystals form precipitation of a yellow flaky deposit.

The change transpires somewhat quicker in an open dish. The intense coloration, as assumed by rapid hydroquinone—or pyro-potash—developer, is not observed with rodinal. The developing strength decreases quickly in spite of this small discoloration; after two days, only a hard negative could be slowly obtained with the usual developer.

All plates developed with rodinal show an exceptionally great clearness and handsome color of the precipitate. The first might be a considerable advantage

in all cases where by addition of potassium bromide every desired degree of covering can be obtained.

Over-exposure may be remedied by great dilution of the developer or by an addition of potassium bromide. Potassium bromide acts as a strong retarder, but gives easily hard pictures; it is therefore better to have a little old developer in store for such cases. If the desired covering cannot be obtained, it can be remedied by an addition of some concentrated hydroquinone solution. I applied to 100 c.c. developer 5 c.c. of the following solution:

Hydroquinone.....	5 grams.
Water	100 c.c.
Sulphite of soda	10 grams.

Glass clear; very strong negatives of a grayish black tone are obtained, even if considerably over-exposed.

By reason of these experiments I believe that I am justified in presuming that rodinal might be suitable as an excellent developer for instantaneous pictures as well as for portraits. In favor of the latter application particularly is the fine modulation of the negative, as can be observed in the sensitometer plates.—*Photographisches Wochenblatt*

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