

# Determination of S-Phase Duration Using 5-Ethynyl-2'-deoxyuridine Incorporation in *Saccharomyces cerevisiae*

Juan de Dios Barba Tena<sup>1</sup>, Etienne Schwob<sup>1</sup>, Nicolas Talarek<sup>1</sup>

<sup>1</sup>Institut de Génétique Moléculaire de Montpellier, Université de Montpellier, CNRS

## Corresponding Authors

Etienne Schwob

etienne.schwob@igmm.cnrs.fr

Nicolas Talarek

nicolas.talarek@igmm.cnrs.fr

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## Materials

| Name                                | Company             | Catalog Number  | Comments                      |
|-------------------------------------|---------------------|-----------------|-------------------------------|
| α-factor                            | Genescript          | RP01002         |                               |
| Bovine Serum Albumin (BSA)          | Euromedex           | 04-100--812-E   |                               |
| Copper sulfate                      | Sigma               | C1297           |                               |
| DAPI                                | Sigma               | D9542           |                               |
| Di-sulfo-Cyanine5 azide (Cy5 azide) | Interchim           | FP-JV6320       | Alternative to Alexa647-Azide |
| Dy-530 azide                        | Dyomics             | 530-10          |                               |
| EdU (5-ethynyl-2'-deoxyuridine)     | Carbosynth          | NE08701         |                               |
| Ethanol absolute                    | Carlo Erba reagents | P013A10D16      | or equivalent                 |
| L- ascorbic acid                    | Sigma               | A4544           |                               |
| Propidium iodide                    | Sigma               | P4864           |                               |
| Proteinase K                        | Euromedex           | EU0090          |                               |
| Rnase                               | SIGMA               | R5000           |                               |
| Sytox Green                         | Invitrogen          | S-7020          |                               |
| <b>Equipment</b>                    |                     |                 |                               |
| Cell counter                        | OLS                 | CASY            |                               |
| Flow cytometer                      | Agilent             | NovoSampler Pro |                               |
| Shaking incubator                   | Infors              | 444-4230        | or equivalent                 |
| Shaking water bath                  | Julabo              | SW22            | or equivalent                 |
| Sonicator                           | Sonics              | Vibra cell      |                               |
| Wide-field microscopy               | Leica               | THUNDER Imager  | or equivalent                 |