

TECHNICAL SHEET

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| PP021 | Pseudomonas Fluorescein Agar Plate | | |
| Formula | | | |
| Ingredients: | | gms/lit. | |
| Casein enzymic hydrolysate | 10.00 | | |
| Proteose peptone | 10.00 | | |
| Dipotassium phosphate | 1.50 | | |
| Magnesium sulphate | 1.50 | | |
| Agar | 15.00 | | |
| Final pH (at 25°C): 7.0 ± 0.2 | | | |
| Directions: | | | |
| Label the ready to use plate (PP021). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate. | | | |
| Principle: | | | |
| Casein enzymic hydrolysate and Proteose peptone provide carbon and nitrogen sources required for good growth and also aid in fluorescein production. Phosphate stimulates fluorescein production and has an inhibitory effect on pyocyanin. Dipotassium phosphate increases the phosphorus content over that supplied by the peptones. Magnesium Sulfate provides necessary cations for the activation of fluorescein production. Agar is solidifying agent. Glycerol, added during preparation of the medium, is a carbon source. The medium enhances the elaboration of fluorescein by Pseudomonas and inhibits the pyocyanin formation. The fluorescein pigment diffuses from the colonies of Pseudomonas into the agar and shows yellow fluorescent coloration. Some Pseudomonas strains produce small amounts of pyocyanin resulting in a yellow-green coloration. Temperature can be a determining factor as most other fluorescent strains will not grow at 35°C. Rather, they grow at 25-30°C. | | | |
| (I) QC Tests | | | |
| | pH: | 7.0 ± 0.2 | |
| | Color: | Yellow coloured medium. | |
| | Appearance: | Sterile Pseudomonas Fluorescein Agar in 90X15 mm disposable plates. | |
| (II) Sterility test | | Passes release criteria | |
| (III) Q.C. Test Microbiological | | | |
| | Cultural characteristics observed after incubation at 35-37°C for 18-24 hours. | | |
| | MICROORGANISM (ATCC) | GROWTH | COLOR OF COLONY |
| | Pseudomonas aeruginosa 17934 | luxuriant | Greenish yellow |
| | Pseudomonas aeruginosa 27853 | luxuriant | Greenish yellow |

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|----------------------|---|
| Precautions : | 1. In Vitro diagnostic use only. |
| | 2. Read the label before opening the container |
| Limitations : | 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. |
| Use: | For detection of fluorescein production by Pseudomonas species |
| Storage: | Store between 2-8°C. Use before expiry date on the label. |
| Packing: | 10/20/50 disposable plates. |

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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