



King B-Agar (Pseudomonas-Agar F)

Version: 07/2022
M&S item numbers: 5270 (25 x 20 ml) and 5271 (4 x 250 ml)
Profile: Glass tubes and polycarbonate bottles
Color: Beige
Storage: Dark and dry at 4 – 12 °C
Shelf life: 8 months after production

Description and application range

King B-Agar is used for the detection of *Pseudomonas aeruginosa* in drinking water, mineral water and other samples. The formulation complies with DIN EN ISO 16266:2008. *Pseudomonas aeruginosa* is able to develop different kinds of pigments. The composition of King B medium enhances the formation of the yellow fluorescent Fluorescin and the blue-green pigment Pyocyanine. Infrequently appear brownish-black or reddish pigments. Magnesium serves as an activator for the production of this pigments. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd. 2:2020 standard.

Typical composition

Proteose peptone	20.0 g/l
Di-potassiumhydrogenphosphate	1.5 g/l
Magnesium sulfate	1.5 g/l
Glycerol	10 g/l
Bacteriological Agar	15.0 g/l

Final pH: 7.2 ± 0.2 at 25 °C

Microbiological quality control

Bacterial contamination

Incubation: aerobically at room temperature for 3 days, specification: no growth

Productivity qualitative analysis

Incubation: aerobically at 44 ± 2 °C for 21 ± 3 h

Microorganism	Test strain	Specification	Appearance
<i>Pseudomonas aeruginosa</i>	WDCM 00024	Very good growth and formation of Pyocyanine, fluorescence	Beige to Greenish, fluorescence under UV light (366nm)
<i>Pseudomonas aeruginosa</i>	WDCM 00025	Very good growth and formation of Fluorescin, fluorescence	Beige to brownish, fluorescence under UV light (366nm)



Selectivity qualitative analysis

Incubation: aerobically at 44 ± 2 °C for 21 ± 3 h

Microorganism	Test strain	Specification	Appearance
<i>Escherichia coli</i>	WDCM 00012	No formation of Pyocyanine, no fluorescence	Beige, no fluorescence
<i>Escherichia coli</i>	WDCM 00013	No formation of Pyocyanine, no fluorescence	Beige, no fluorescence
<i>Escherichia coli</i>	WDCM 00179	No formation of Pyocyanine, no fluorescence	Beige, no fluorescence



Pure culture of *Ps. aeruginosa* after 24 hours at 37 °C under UV-Light