

## SCHWARZ DIFFERENTIAL MEDIUM

Medium for the differentiation of brewing yeasts from wild yeasts.

### TYPICAL FORMULA (g/l)

Malt Extract	3.0
Yeast Extract	3.0
Peptone	5.0
Glucose	10.0
Basic Fuchsin	0.47
Sodium Sulphite	2.92
Dextrin	0.11
Agar	20.0
Final pH 6.9 ± 0.2	

### DESCRIPTION

SCHWARZ DIFFERENTIAL MEDIUM is a medium for the differentiation of brewing yeasts from wild yeasts.

### PRINCIPLE

Malt extract, yeast extract and peptone provide amino acids and vitamins. Glucose and dextrin are the source of energy. Basic fuchsin is a staining for yeasts. Sodium sulphite is reduced by yeasts to sulphide.

### PREPARATION

Suspend 44,5 g in 1 litre of distilled water. Heat until completely dissolved. Autoclave at 121°C for 15 minutes. Dispense into petri dishes.

### TECHNIQUE

Streak the sample to examine onto the entire surface using a sterile loop. Incubate the plates at 36 ± 1°C for 18-24 hours.

### INTERPRETATION of RESULTS

Observe for the formation of colonies.

### STORAGE

10-30°C away from light, until the expiry date on the label. Eliminate if signs of deterioration or contamination are evident.

### WARNING AND PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product must be used only by properly trained operators.

### DISPOSAL of WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

### REFERENCES

- ASBC Methods of Analysis, 8th ed. (American Society of Brewing Chemists, Egan, Minnesota, 1992).
- Malting & Brewing Science, D.E. Briggs, J.S. Hough, R. Stevens, and T.W. Young (Chapman and Hall, London, 1981).
- Microbiological Methods ([Siebel Institute](#), Chicago, 1994).
- The Practical Brewer, M. Meilgaard (Master Brewers Association of the Americas, Madison, Wisconsin, 1977).



**Liofilchem s.r.l.**

Via Scozia, Zona industriale - 64026 Roseto degli Abruzzi (Te) Italy - Tel. +39.0858930745 - Fax +39.0858930330  
Web site: <http://www.liofilchem.net> - E-mail: [liofilchem@liofilchem.net](mailto:liofilchem@liofilchem.net)

## PRODUCT SPECIFICATIONS

### NAME

SCHWARZ DIFFERENTIAL MEDIUM

### PRESENTATION

Dehydrated medium

### STORAGE

10-30°C

### PACKAGING

Code	Content	Packaging
610127	500 g	500 g of powder in plastic bottle

### pH OF THE MEDIUM

6.9 ± 0.2

### USE

SCHWARZ DIFFERENTIAL MEDIUM is a medium for the differentiation of brewing yeasts from wild yeasts.

### TECHNIQUE

Refer to technical sheet of the product.

### APPEARANCE OF THE MEDIUM

Dehydrated medium: free-flowing, homogeneous, purple in colour.

Prepared plates: pink-red, opalescent.

### SHELF LIFE






4 years.

### QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control  
Inoculum for productivity: 10-100 UFC/ml  
Inoculum for selectivity: 10<sup>4</sup>-10<sup>5</sup> UFC/ml  
Incubation conditions: 18-24 h at 36 ± 1°C

Microorganisms		Growth	Colour	Metallic sheen
<i>Escherichia coli</i>	ATCC 25922	Poor	Red	-
<i>Candida albicans</i>	ATCC 10231	Good	Red	+
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Good	Colorless	-
<i>Saccharomyces cerevisiae</i>	ATCC 9763	Inhibited		
<i>Enterococcus faecalis</i>	ATCC 19433	Inhibited		

### TABLE OF SYMBOLS

<b>LOT</b>	Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests
<b>REF</b>	Catalogue number	 Temperature limitation	 Use by	



**Liofilchem s.r.l.**

Via Scozia, Zona industriale - 64026 Roseto degli Abruzzi (Te) Italy - Tel. +39.0858930745 - Fax +39.0858930330  
Web site: <http://www.liofilchem.net> - E-mail: [liofilchem@liofilchem.net](mailto:liofilchem@liofilchem.net)