

Product Specification Sheet

Columbia Agar with Blood / MacConkey Agar No. 3

Intended Usage: For the simultaneous growth of fastidious organisms with clearly visible haemolytic reactions, the detection and enumeration of coliforms and the isolation of *Salmonella* and *Shigella* species.

For professional use only.

PB5207E	
Version: 08	Revision Date: 11 May 2020

Thermo Scientific™ Columbia Agar with Blood / MacConkey Agar No. 3

Form of Product	Poured plate
Storage	2 – 12°C, dark
Filling weight	17 g ± 5 %
Packaging	10 biplates wrapped in film
pH	
Columbia agar with blood	7.3 ± 0.2
MacConkey agar No 3	7.1 ± 0.2
Appearance	
Columbia agar with blood	Carmine red, opaque
MacConkey agar No 3	Antique pink, transparent
Shelf life	10 weeks
Intended Usage	For the simultaneous growth of fastidious organisms with clearly visible haemolytic reactions, the detection and enumeration of coliforms and the isolation of <i>Salmonella</i> and <i>Shigella</i> species.
Technique	For professional use only Depends on the different methods. For information see Specification Sheet for Thermo Scientific™ Oxoid™ CM0331 / CM0115.

Typical formulation* Side 1 - Columbia agar with blood	g/l
Special peptone	23.0
Starch	1.0
Sodium chloride	5.0
Agar	11.0
Defibrinated Sheep Blood	70.0 ml

* Adjusted as required to meet performance standards

Typical formulation* Side 2 - MacConkey agar No 3	g/l
Peptone	20.0
Lactose	10.0
Bile salts No. 3	1.5
Sodium chloride	5.0
Neutral red	0.03
Crystal violet	0.001
Agar	15.0

Quality Control

1. Control for general characteristics, labelling and printing.
2. Contamination check
 ≥ 72 h @ 20 – 25 °C, aerobic
 ≥ 72 h @ 30 – 35 °C, aerobic
3. Microbiological Control

Side 1 – Columbia agar with blood

Positive Controls	Growth
Inoculum 10³-10⁴ colony forming units (cfu), qualitative, control medium COL+SB Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic	
<i>Streptococcus pneumoniae</i> ATCC® 6305™	Good growth, α-haemolysis
<i>Streptococcus pyogenes</i> ATCC® 12344™	Good growth, β-haemolysis
<i>Staphylococcus aureus</i> ATCC® 25923™	Good growth, white colonies.

Side 2 – MacConkey Agar No.3

Positive Controls	Growth
Inoculum 10³-10⁴ cfu, qualitative, control medium COL+SB Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic	
<i>Salmonella</i> Typhimurium ATCC® 14028™	Good growth, rose irregular colonies
<i>Escherichia coli</i> ATCC® 25922™	Good growth, pink colonies and bile precipitation.

Negative Control	Growth
Inoculum 10⁴-10⁵ cfu, qualitative, control medium COL+SB Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic	
<i>Enterococcus faecalis</i> ATCC® 29212™	No growth

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