RUSSEL AGAR

A differential medium for the differentiation of bacteria on the basis of carbohydrate fermentation and hydrogen sulphite production.

Dehydrated media	
Code number:	500 g: RUS20500, 5 kg: RUS25000
Colour:	Beige
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,1 – 7,5

Direction: Suspend **38 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position to form slants with deep butt.

Prepared media	
Bottled media:	100 ml: RUS30100, 500 ml: RUS30500
Tubed media:	150 x 15 mm: RUS40006 (6 ml, slant with deep butt)
	100 x 12 mm: RUS40003 (3 ml, slant with deep butt)
Colour:	Pinkish
pH (25 °C):	7,2 – 7,4

Direction: Dispense the melted bottled media aseptically into test tubes. Allow to cool in slanted position to form slant with deep butt. Media in tubes are ready to use.

FORMULA in g/l

Peptones	8,4
Lactose	10,0
Sucrose	1,0
Glucose	0,5
Sodium chloride	4,0
Ferrous sulphate	0,5
Sodium thiosulphate	0,5
Andrade indicator	0,1
Buffers	1,0
Agar	12,0

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media protected from light at room temperature. Store the tubed media protected from light at 2-8 °C. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	**Reactions**		Incubation time: 24 h	
		Slant	**Butt**	**Gas**	**H_2S**
Escherichia coli	ATCC 25922	claret	claret	+	-
Salmonella typhimurium	ATCC 14028	red	unchanged	+	+
Proteus mirabilis	ATCC 29906	pink	unchanged	+	+
Pseudomonas aeruginosa	ATCC 27853	unchanged	unchanged	-	-

Irodalom: Russel and Krumwiede (1935)

In vitro diagnostic – for professional use only!