

## 403: BSK-MEDIUM

This recipe contains strain-specific modifications for *Borrelia hermsii* DSM 5251 \*

Final volume: 1429 ml

<b>Solution A</b>	1000.00	ml
<b>Solution B</b>	200.00	ml
<b>Solution C</b>	143.00	ml
<b>Solution D</b>	86.00	ml

1. Combine the warm (37°C) solutions A, B, C, D, and filter-sterilize the warm medium. Solution B can also be added after filtration.

2. Alternatively, buy supplemented or un-supplemented BSK-H medium (Fa. Bio&SELL or Sigma) and supplement the medium according to manufacturer's advice. Sterilize the mixed and warm (37°C) medium by filtration.

\* Microaerophilic (candle jar)

### Solution A

CMRL 1066 (GIBCO 042-1545, glutamin 10 x)	100.00	ml
Proteose peptone no. 2 (DIFCO 0121-01-3)	5.00	g
Tryptone peptone (DIFCO 0123-01)	1.00	g
Proteose yeastolate (TC) (DIFCO 5577-15)	1.00	g
HEPES buffer (acid) (SIGMA H3375)	6.00	g
Sodium citrate	0.70	g
Glucose (alpha-, D+)	3.00	g
Na-pyruvate	0.80	g
N-Acetylglucosamine	0.40	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.30	g
L-Glutamine	0.10	g
Double distilled water (filter-sterilized)	900.00	ml

Stir slowly at 4 - 10°C for 3 hours, adjust pH to 7.6 with 5 M NaOH. Filter sterilize.

### Solution B

Gelatine	14.00	g
Double distilled water	200.00	ml

Dissolve 14.0 g gelatine in 200 ml bidest. water, autoclave 15 minutes at 115°C.

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### Solution C

Bovine serum albumin (Sigma No A9647)	50.05	g
Double distilled water	143.00	ml

Dissolve 50.05 g bovine serum albumine, fract. V (important: Sigma No A9647) in 143 ml bidest. water, or use BSA-solution Sigma A7409.

### Solution D

Rabbit serum (inactivated, GIBCO 037-06120M)	86.00	ml
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