



Product Information

BSK-H COMPLETE MEDIUM

With Sodium Bicarbonate

Product No. **B 8291**

Store at -0°C

Product Description

BSK-H medium is a complex medium designed to support the growth of the Lyme disease spirochete, *Borrelia burgdorferi*.

REAGENT

For For Laboratory Use Only

Product Use

BSK-H Medium [Product No. B8291] is supplied as a sterile-filtered liquid. After thawing, mix well by inverting the bottle prior to use. If the thawed medium will not be used within a few days it is recommended that the medium be refrozen in working aliquots to avoid repeated free-thaw cycles.

Other supplements may be added aseptically as desired. The nature of the supplement may affect storage conditions and shelf-life of the medium.

Components

	<u>g/L</u>
L-Alanine	0.0235
L-Arginine	0.054398
L-Aspartic Acid	0.0282
L-Cysteine-HCl-H ₂ O	0.2444
L-Cystine	0.0188
L-Glutamic Acid	0.0705
Glycine	0.047
L-Histidine HCl-H ₂ O	0.0188
Trans-4-Hydroxy-L-Proline	0.0094
L-Isoleucine	0.0188
L-Leucine	0.0564
L-Lysine-HCl	0.0658
L-Methionine	0.0141
L-Phenylalanine	0.0235
L-Proline	0.0376
L-Serine	0.0235
L-Threonine	0.0282
L-Tryptophan	0.0094
L-Tyrosine	0.0376
L-Valine	0.0235
N-Acetyl-D-Glucosamine	0.376

L-Ascorbic Acid	0.047
PABA	0.000047
D-Biotin	0.0000094
Choline Chloride	0.00047
Citric Acid-3Na-2H ₂ O	0.6956
Coenzyme A	0.00235
Coccarboxylase	0.00094
2'-Deoxyadenosine	0.0094
2'-Deoxyguanosine	0.0094
2'-Deoxycytidine-HCl	0.010904
Flavin Adenine Dinucleotide-2Na	0.0000996
Folic Acid	0.0000094
myo-Inositol	0.000047
5-Methyldeoxycytidine	0.000094
β-NAD	0.006956
β-NADP-Na	0.00094
Niacinamide	0.0000235
Nicotinic Acid	0.0000235
D-Pantothenic Acid-Hemicalcium	0.0000094
Pyridoxal-HCl	0.0000235
Pyridoxine-HCl	0.0000235
Pyruvic Acid-Na	0.752
Riboflavin	0.0000094
Thiamine-HCl	0.0000094
Thymidine	0.0094
Uridine-5-Triphosphate-Na	0.00094
Calcium Chloride [Anhydrous]	0.188
Magnesium Sulfate [Anhydrous]	0.09183
Potassium Chloride	0.376
Sodium Acetate [Anhydrous]	0.047
Sodium Bicarbonate	2.068
Sodium Chloride	6.392
Sodium Phosphate Monobasic [Anhydrous]	0.11468
D-Glucose	5.64
Phenol Red-Na	0.01997
Glutathione	0.0094
D-Glucuronic Acid-Na	0.00365
Cholesterol	0.000188
Tween 80	0.0047
HEPES	5.64
Albumin, Bovine	47.0
Neopeptone	4.7
Yeast Extract	1.88
Rabbit Serum	60.0 ml/l

Product Storage

Store BSK-H complete medium at less than 0°C. Deterioration of the medium may be recognized by any or all of the following: [1] color change, [2] presence of precipitates or cloudiness, [3] pH change, and [4] loss of ability to support growth of Lyme disease spirochetes. Product label bears expiration date.

Product Profile

Appearance	Clear liquid
pH at room temperature	7.6 ± 0.3
Osmolality	450 mOsm/kg H ₂ O ± 30
Amino Acid analysis by HPLC	Analysis has confirmed that amino acids are present at concentrations consistent with the formula.
Key Element Analysis by ICAP	Analysis has confirmed that key elements are present at concentrations consistent with the formula.
Sterility by USP XXIII or 9CFR	Passes
Microbiological testing growth of <i>B. burgdorferi</i>	Passes

References

1. Kelley, R. (1971). Cultivation of *Borrelia hermsii*. *Science* 173:443.
2. Stoenner, H.G., T.Dodd and C. Larson. (1982). Antigenic Variation of *Borrelia Hermsii*. *J. Exp. Medicine* 156:1297-1311.
3. Barbour, A. G., et al (1983). Isolation of Cultivable Spirochete from *Ixodes ricinus* Ticks of Switzerland. *Curr. Microbiol.* 8:123-126.
4. Barbour, A. G. (1984). Isolation and Cultivation of Lyme Disease Spirochetes. *Yale Journal of Biology and Medicine* 57: 521-525.
5. Pollack, R.J., S.R. Teford III and A. Spielman. (1993). Standardization of Medium for Culturing Lyme Disease Spirochetes. *J. Clinical Microbiology* 31:1251-1255.

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6H106

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