



BHI + v2 salts media V.1

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Version 1

Oct 14, 2020

In Development

dx.doi.org/10.17504/protocols.io.bmatk2en



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ABSTRACT

Vibrio natriegens grows exceptionally well in BHI + v2 salts media ([link](#)). Furthermore, this media has been used multiple times in the literature for culturing this organism. However, care must be taken when preparing this media not to autoclave v2 salts and BHI together. This protocol utilises a 10x v2 salts buffer to achieve this.

THIS PROTOCOL ACCOMPANIES THE FOLLOWING PUBLICATION

Weinstock, M. T., Heseck, E. D., Wilson, C. M., & Gibson, D. G. (2016). *Vibrio natriegens* as a fast-growing host for molecular biology. *Nature Methods*, 13(10), 849–851. <https://doi.org/10.1038/nmeth.3970>

DOI

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PROTOCOL CITATION

Matthew Haines 2020. BHI + v2 salts media. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.bmatk2en>

MANUSCRIPT CITATION please remember to cite the following publication along with this protocol

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CREATED

Sep 11, 2020

LAST MODIFIED

Oct 14, 2020

PROTOCOL INTEGER ID

42035

MATERIALS

NAME	CATALOG #	VENDOR
MgCl2		
Sodium chloride		
Potassium Chloride		
Brain Heart Infusion Broth Dry Medium	B9500	Teknova

ABSTRACT

Vibrio natriegens grows exceptionally well in BHI + v2 salts media ([link](#)). Furthermore, this media has been used multiple times in the literature for culturing this organism. However, care must be taken when preparing this media

not to autoclave v2 salts and BHI together. This protocol utilises a 10x v2 salts buffer to achieve this.

Prepare 10x v2 salts buffer

- 1 Dissolve the following salts in **800 mL** of ddH₂O:

Component	MW	Target concentration (mM)	Component (g/900 mL)	Final concentration (mM)
NaCl	58.44	2040.0	107.30	2040.08
MgCl ₂	95.21	231.4	19.83	231.42
KCl	74.55	42.0	2.82	42.03

- 2 Adjust the volume to **900 mL** using ddH₂O.

Prepare BHI media

- 3 Dissolve **37 g** of BHI dry medium in **900 mL** ddH₂O.

Sterilise and combine

- 4 Sterilise both BHI media and 10x v2 salts buffer by autoclaving.
- 5 Add **100 mL** 10x v2 salts buffer to the sterilised **900 mL** BHI media under sterile conditions.



The remaining 10x v2 salts buffer can be used for making further BHI + v2 salts media.