





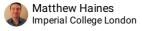
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© BHI + v2 salts media V.1

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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., Hesek, 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

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MATERIALS

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

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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

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Prepare 10x v2 salts buffer

1 Dissolve the following salts in \blacksquare 800 mL of ddH₂0:

Component	MW	Target concentration	Component (g/900 mL)	Final concentration
		(mM)		(mM)
NaCl	58.44	2040.0	107.30	2040.08
MgCl2	95.21	231.4	19.83	231.42
KCI	74.55	42.0	2.82	42.03

2 Adjust the volume to \blacksquare 900 mL using ddH₂0.

Prepare BHI media

3 Dissolve \square 37 g of BHI dry medium in \square 900 mL ddH₂0.

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.