Version 3

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BHI + v2 salts media V.3

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1 Works for me dx.doi.org/10.17504/protocols.io.bme3k3gn

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ABSTRACT

Vibrio natriegens grows exceptionally well in BHI + v2 salts media (link). Furthermore, this media is routinely used for culturing this organism (Weinstock et al., 2016). However, care must be taken during preperation not to autoclave v2 salts and BHI together. This protocol first generates separate solutions before sterilising and combining them.

Weinstock MT, Hesek ED, Wilson CM, Gibson DG (2016). Vibrio natriegens as a fast-growing host for molecular biology.. Nature methods. https://doi.org/10.1038/nmeth.3970

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PROTOCOL CITATION

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Vibrio natriegens, Model prokaryotes, Synthetic biology

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42171

PARENT PROTOCOLS

In steps of

Vibrio Natriegens - Glycerol stock

MATERIALS

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

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Prepare stock salt solutions

1 Prepare the following salt solutions at the given concentrations:

- [M]**5 Molarity (M) NaCl**
- [M]**1 Molarity (M) KCl**
- [M]**1 Molarity (M) MgCl2.6H2O**

Prepare BHI media

2 Dissolve **18.5 g BHI dry medium** in **400 mL** ddH_2O in a 1 L graduated bottle.

Sterilise and combine

3 Sterilise all solutions by autoclaving.

4 Under sterile conditions, transfer the following volumes of stock salt solutions to the BHI media:

Salt	Stock solution (M)	Volume (mL)	Final concentration (mM)
NaCl	5	20.4	204
MgCl2.6H2O	1	11.6	23.2
KCl	1	2.1	4.2

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5 Adjust the volume to **500 mL** using sterile ddH2O.

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