BHI/LB + v2 salts media V.4

Matthew Haines[1]
[1]Imperial College London

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1 Works for me dx.doi.org/10.17504/protocols.io.bq7xmzpn

Matthew Haines
Imperial College London

ABSTRACT

Vibrio natriegens grows well media containing v2 salts e.g. BHI + v2 and LBv2 (link). Furthermore, such 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 media 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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PARENT PROTOCOLS

In steps of
Natural Transformation

MATERIALS TEXT

MATERIALS

Sodium chloride **Contributed by users**

Potassium Chloride **Contributed by users**

Brain Heart Infusion Broth Dry Medium **Teknova Catalog #B9500**

or

LB-Broth Miller (= LB mix) **Formedium Catalog #LMM0104**

Magnesium chloride hexahydrate **Contributed by users**

For certain reagents alternative suppliers are available and no supplier is endorse.

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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 media

2 Dissolve **18.5 g BHI dry medium** or **12.5 g LB Broth (Miller)** 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:

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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

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

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