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Protocol status: In development
 We are still developing and optimizing this protocol

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BHI + v2 salts media V.2

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

CITATION

Weinstock MT, Hesek ED, Wilson CM, Gibson DG (2016). *Vibrio natriegens* as a fast-growing host for molecular biology.. Nature methods.

LINK

<https://doi.org/10.1038/nmeth.3970>

MATERIALS

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MgCl₂ **Contributed by users**

Sodium chloride **Contributed by users**

Potassium Chloride **Contributed by users**

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

Prepare 10x v2 salts buffer

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

Component	Target concentration (mM)	Component (g/900 mL)	Final concentration (mM)
NaCl	2040.0	107.30	2040.08
MgCl ₂	231.4	19.83	231.42
KCl	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.

Note

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