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Version 2

BHI + v2 salts media V.2

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Protocol status: In development

We are still developing and optimizing this protocol

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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.

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

[LINK](#)

Materials

MATERIALS

⊗ MgCl₂

⊗ Sodium chloride

⊗ Potassium Chloride

⊗ 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.



Citations

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