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

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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MATERIALS

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

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Prepare 10x v2 salts buffer

1 Dissolve the following salts in **800 mL** of ddH_2O:

Component	Target concentration (mM)	Component (g/900 mL)	Final concentration (mM)
NaCl	2040.0	**107.30**	2040.08
MgCl2	231.4	**19.83**	231.42
KCl	42.0	**2.82**	42.03

2 Adjust the volume to **900 mL** using ddH_2O.

Prepare BHI media

3 Dissolve **37 g** of BHI dry medium in **900 mL** ddH_2O.

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.

Citation: Matthew Haines (10/14/2020). BHI + v2 salts media. https://dx.doi.org/10.17504/protocols.io.bmb8k2rw