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BHI + v2 salts media V.1

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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 has been used multiple times in the literature for culturing this organism. However, care must be taken when preparing this media not to autoclave v2 salts and BHI together. This protocol utilises a 10x v2 salts buffer to achieve this.

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 ddH_2O:

	Component	MW	Target concentration (mM)	Component (g/900 mL)	Final concentration (mM)
	NaCl	58.44	2040.0	**107.30**	2040.08
	MgCl2	95.21	231.4	**19.83**	231.42
	KCl	74.55	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.

Note

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