

# Spawn night protocol

For embryonic development of Montipora capitata rice corals

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## Prep

### Make Stock Leachate

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First make 400mL of each stock solution from the 1000 mg/L prepared leachate

- ☐ Make 10 mg/L stock:

$$1000 \text{ mg/L} * V1 = 10 \text{ mg/L} * 400\text{mL}$$

$$V1 = 4\text{mL}$$

$$400\text{mL of } 10\text{mg/L stock} = 4\text{mL of } 1000\text{mg/L stock} + 396\text{mL of FSW}$$

- ☐ Make 1mg/L stock:

$$10\text{mg/L} * V1 = 1\text{mg/L} * 400\text{mL}$$

$$V1 = 40\text{mL}$$

$$400\text{mL of } 1\text{mg/L stock} = 40\text{mL of } 10\text{mg/L stock} + 360\text{mL of FSW}$$

- ☐ Make 0.1 mg/L stock:

$$1\text{mg/L} * V1 = 0.1\text{mg/L} * 400\text{mL}$$

$$V1 = 40\text{mL}$$

$$400\text{mL of } 0.1\text{mg/L stock} = 40\text{mL of } 1\text{mg/L stock} + 360\text{mL of FSW}$$

2. Then dilute the stock to each treatment vial/jar

For a 20mL scintillation vial for coral embryo experiments with a final target volume of 15mL:

#### **1mg/L HIGH treatment**

$$10\text{mg/L} * V1 = 1\text{mg/L} * 19\text{mL}$$

$$V1 = 1.9\text{mL}$$

$$19\text{mL of } 1\text{mg/L leachate} = 17.1\text{mL of FSW} + 1.9\text{mL of } 10\text{mg/L stock}$$

#### **0.1 mg/L MID treatment**

$$1\text{mg/L} * V1 = 0.1\text{mg/L} * 19\text{mL}$$



