



## 5.2 Specimen DNA/RNA Extraction – Single step extraction using prepGEM

Resuspend Lysozyme – Resuspend lyophilized powder in 100mM Tris pH 8.0 to the volume specified on the label.

Create a 100mM dilution of Tris pH 8.0 from the original 1M Tris pH 8.0 bottle.

100µL of 1M Tris pH 8.0 and 900µL of DNA-free water.

Aliquot 50

µL of Lysozyme and

prepGEM

into 0.6mL tubes.

This will reduce potential for contamination and activity loss. Store lysozyme and

prepGem

at -20

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Make enough extraction Master Mix for the number of samples to be processed using the following table for reference:

**Table 3. Extraction Master Mix Calculations**

Extraction Master Mix		
Reagent	Volume per 1 rxn (µL)	Total Reaction Volume (30rxns) (µL)
DNA-free Water	28.1	843
10X Green+ Buffer	3.3	99
prepGEM	0.3	9
Lysozyme	0.3	9
UTI Internal Control	0.333	10

Entero-DR Internal Control	0.333	10
GAPDH Internal Control	0.333	10

Pipette 33

μ  
L of extraction master mix and 17  
μ  
L of patient sample into a 96 well plate, using the following plate map for reference:  
Do this for each patient sample and  
the  
negative control  
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**Sections 5.3 through 5.5 omitted from this addendum due to lack of changes to the procedure**

### **5.6 Melt Curve Analysis**

**Section no longer necessary with GAPDH replacing RNase P as internal control.**

Testing personnel will sign this addendum in acknowledgement of changes to the extraction protocol for the Respiratory Panel.

Director Signature Date