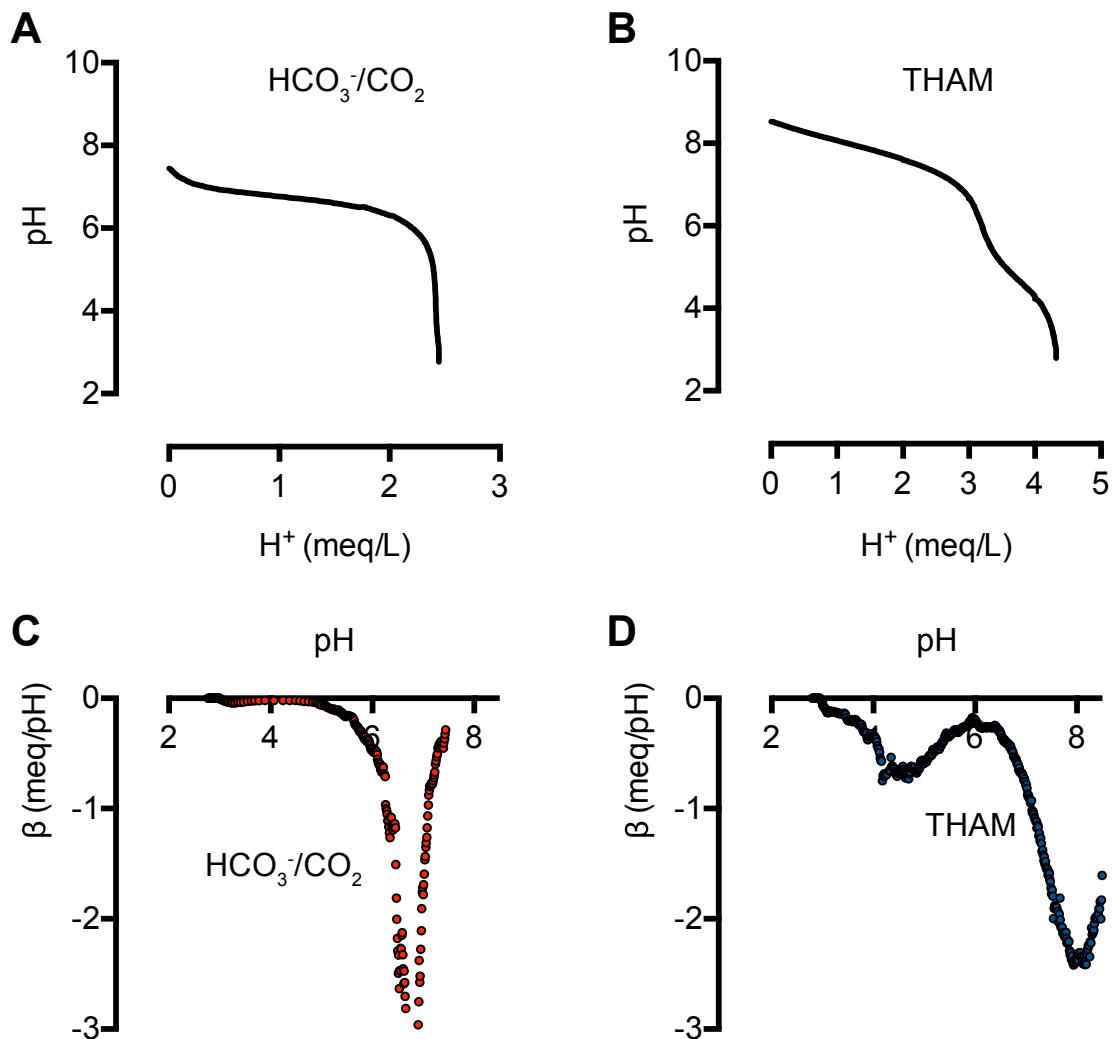


## SUPPLEMENT

**Supp. 1. Buffering capacity of  $\text{HCO}_3^-/\text{CO}_2$  buffer and tromethamine.**

(A and B) Data are acid titration curves and represent drop in pH after addition of acid. **A.**  $\text{HCO}_3^-/\text{CO}_2$  and **B.** tromethamine . (C and D) amount of acid (in meq) needed to drop pH by 1 unit or buffering capacity ( $\beta$ ) **C.**  $\text{HCO}_3^-/\text{CO}_2$  and **D.** tromethamine. Results are from a single experiment. Each experiment was repeated at least 3 times with similar results.

**Supp. 2. Demographics and lung function of the subjects that contributed sputum for the in vitro studies**

	<b>Age</b>	<b>Gender</b>	<b>FEV1 (L)</b>	<b>Meds</b>
<b>Fig. 1</b>				
<b>1</b>	21	F	2.25	azithromycin
<b>2</b>	41	F	1.21	azithromycin, colistin
<b>3</b>	24	F	0.93	colistin, minocycline, ciprofloxacin
<b>4</b>	50	M	1.51	azithromycin, tobramycin
<b>5</b>	44	M	1.73	azithromycin, tobramycin
<b>6</b>	42	M	2.05	azithromycin
<b>Fig. 7</b>				
<b>1</b>	21	F	0.71	azithromycin, tobramycin
<b>2</b>	57	F	1.64	azithromycin, cayston
<b>3</b>	43	M	1.79	azithromycin
<b>4</b>	48	M	2.00	azithromycin
<b>5</b>	44	M	1.31	azithromycin, colistin
<b>6</b>	25	F	2.69	azithromycin, tobramycin