**Lab sheet #5**

**Name:**……………………………………………………………………………… **ID:** ………………………………………………………………………………

**Method and Calculations**:

You are provided with two acetate buffer (pH=5) ; 0.1 M acetate buffer and 0.2 M acetate buffer . Calculate the buffer capacity by titration for both buffers (using 8 ml), by 2 M HCl (0.5 ml) then compare between them (which one has higher buffer capacity and why?)

1. Titration of 0.1M acetate buffer by 2M HCl:

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| **Measured pH value** | **Amount of 2M HCl added [ml]** |
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Calculations:

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1. Titration of 0.2M acetate buffer by 2M HCl:

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| **Measured pH value** | **Amount of 2M HCl added [ml]** |
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Calculations:

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