# RE–FORM ASSAY KIT DIRECTIONS
# CATALOG # 201

The assay kit can be used for quality control of newly made formalin or to assay recycled formalin.

1. Pipet 10.0 ml deionized or distilled water into a 50 ml glass beaker.

2. Add approximately 1 gram SULFITE (Item A) to the water. Measuring one level spoonful of dry granules using the spoon included with this kit will provide sufficient accuracy.

3. Mix on a magnetic stirplate with stirbar until sulfite is dissolved.

4. While solution is stirring, add 2 drops of INDICATOR (Item B).

5. Then, pipet 0.20 ml of the formalin to be assayed into the beaker. The sulfite solution will turn dark blue.

6. Fill a serological pipet with 10.0 ml ACID (Item C). Add the acid drop–wise into the beaker until the blue color changes to canary yellow.

7. Record the volume of acid used.

8. Use the table on reverse side of this card to determine the formalin content. Make adjustments using either concentrated (37%) formalde-hyde or deionized/distilled water, if necessary, to bring into the proper range of 9.0–10.9%.

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# DETERMINATION AND ADJUSTMENT OF FORMALIN CONTENT AFTER THE ASSAY

| I<br>ml acid titrated | II<br>percent formalin | III<br>milliliters of 37% formaldehyde to add | IV<br>milliliters of water to add |
|---|---|---|---|
| 1.1–1.3 | 3 | 1,330 | – |
| 1.4–1.6 | 4 | 1,140 | – |
| 1.7–1.9 | 5 | 950 | – |
| 2.0–2.2 | 6 | 760 | – |
| 2.3–2.6 | 7 | 570 | – |
| 2.7–2.9 | 8 | 380 | – |
| **3.0–3.5** | **9.0–10.9** | **No adjustment** | |
| 3.6–3.8 | 11 | – | 1,893 |
| 3.9–4.2 | 12 | – | 3,785 |
| 4.3–4.5 | 13 | – | 5,678 |
| 4.6–4.8 | 14 | – | 7,570 |
| 4.9–5.1 | 15 | – | 9,463 |
| 5.2–5.4 | 16 | – | 11,355 |
| 5.5–5.8 | 17 | – | 13,248 |
| 5.9–6.1 | 18 | – | 15,140 |
| 6.2–6.4 | 19 | – | 17,033 |
| 6.5–6.7 | 20 | – | 18,925 |

Note: Adjustment amounts in columns III & IV are based upon a 19 liter (5 gallon) batch. Scale these numbers up or down proportionately based on final batch size, e.g., for a 15 liter batch, multiply the recommended adjustment volumes by 0.78 (15/19 = 0.78 conversion factor).