



EQUIPMENT REQUIRED TO SET UP SPECIFIED ANALYSIS

TITRATABLE ACIDITY

250 mL Erlenmeyer flasks
5 mL Volumetric A pipet
Titration assembly (buret set up)

0.1N Sodium Hydroxide
Phenolphthalein
Source for degassing (vacuum or hot water)

pH

pH meter with electrode and ATC probe
50 mL glass beakers
100 mL nalgene beakers
Optional: magnetic stirrer with stir bars.

Distilled water
pH 4.00 buffer
pH 7.00 buffer
pH 3.00 buffer

VOLATILE ACIDITY

Cash still assembly
Titration assembly (2 burettes)
250 mL Erlenmeyer flasks
10 mL Volumetric A pipet
5 mL Serological pipet
Pipet safety bulb

0.1 N Sodium hydroxide
Phenolphthalein
25% Sulfuric Acid
0.02 N Iodine
Starch indicator
Antifoam B

AERATION OXIDATION FREE SO₂

Aeration-oxidation assembly
20 mL Volumetric A pipet
10 mL Serological pipet
Pipet safety bulb
Titration assembly

3% Hydrogen peroxide
25% Phosphoric Acid
0.01 N Sodium hydroxide
SO₂ Indicator

RIPPER FREE & TOTAL SO₂

250 mL Erlenmeyer Flasks
25 mL Serological pipet
5 mL Repipettor (for Sulfuric Acid)
10 mL Serological pipet
Pipet safety bulb
Titration assembly
Optional: 10 mL Tilting pipette (for 1N NaOH)
250 mL red dispensing bottle (for Starch)

0.02 N Iodine
Starch indicator
25% Sulfuric Acid
1N Sodium hydroxide



Inspiring innovation.



ENZYMATIC ANALYSIS - Malic acid, Glucose-fructose, Ammonia, Acetic Acid

- Spectrophotometer
- Cuvettes & Cuvette rack
- 10-100 uL Adjustable Eppendorf Pipettor with tips
- 100-1000 uL Adjustable Eppendorf Pipettor with tips
- Volumetric glassware for dilutions
- Appropriate test kits and standards

ALPHA AMINO NITROGEN

- Spectrophotometer
- Cuvettes & Cuvette rack
- 50 uL Pipettor with tips
- 10—100uL Adjustable pipettor with tips
- Centrifuge & Centrifuge tubes
- Scientific calculator or spreadsheet software like Excel
- Reagent kit with standards: 10mM IsoLeucine Standard
5% OPA
NAC Buffer

Distilled water

MICROSCOPE - microscan, yeast viability

- Microscope with phase contrast objectives
- Slides
- Cover slips
- Pasteur pipets w bulb
- Lens paper
- Levy Counting chamber
- Alcohol burner & wick
- Methylene blue yeast stain
- Immersion oil
- Reagent alcohol (for burner)
- 70% Isopropyl alcohol (sterility)

The indications supplied are based on our current knowledge and experience, but do not relieve the user from adopting the necessary safety precautions or from the responsibility of using the product(s) properly.

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