**Detecting saccharides and proteins in food (preparation details for teachers and technicians)**

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| **SAFETY** |  |
| **Copper (II) Sulfate, Pentahydrate** | H301 - Toxic if swallowed  H400 - Very toxic to aquatic life  H410 - Very toxic to aquatic life with long lasting effects  P264 - Wash exposed skin thoroughly after handling  P270 - Do not eat, drink or smoke when using this product  P273 - Avoid release to the environment  P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician  P330 - If swallowed, rinse mouth  P391 - Collect spillage  P405 - Store locked up  P501 - Dispose of contents/container to comply with local, state and federal regulations |
| **Sodium Potassium Tartrate, Tetrahydrate** | Not a hazardous substance |
| **Potassium Hydroxide** | H302 - Harmful if swallowed  H314 - Causes severe skin burns and eye damage  H402 - Harmful to aquatic life  P260 - Do not breathe dust.  P264 - Wash exposed skin thoroughly after handling.  P270 - Do not eat, drink or smoke when using this product.  P273 - Avoid release to the environment.  P280 - Wear protective gloves, protective clothing, eye protection, face protection.  P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| **Sodium Hydroxide** | H314 - Causes severe skin burns and eye damage.  H402 - Harmful to aquatic life  P260 - Do not breathe dust, vapours.  P264 - Wash exposed skin thoroughly after handling.  P273 - Avoid release to the environment.  P280 - Wear eye protection, face protection, protective clothing, protective gloves.  P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.  Rinse skin with water/shower.  P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P310 - Immediately call a POISON CENTER/doctor |
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**TO PREPARE IN ADVANCE**

**Fehling’s A**

Dissolve 69.28 g of copper(II) sulfate pentahydrate in 1L DI water.

**Fehling’s B**

Dissolve 346 g sodium potassium tartrate and 120 g sodium hydroxide in 1L DI water.

Or dissolve 345 g of sodium potassium tartrate and 250 g of potassium hydroxide in 1L DI water.