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| **Experiment No. (5)**  **Preparation of Cuprous Oxide:** | | | | |
| المواد الكيميائية خزانة الابخرة رقم (1) | الزجاجيات خزانة رقم (1) | | المواد الكيميائية الصلبة بجانب الموازين (1و2) | * + الملاحظات |
|  | نوع | عدد | 1. Copper sulfate hydrous CuSO4.5H2O (0.5 gr). 2. Sodium sulfate Na2SO3 (0.75 gr). 3. Sodium chloride NaCl (0.5 gr). 4. Borax (0.5 gr). | Filter paper توضع على المنصة distilled water في قناني الغسيل  ice bath; تاخذ مكعبات الثلج وتوضع في بيكر او جفنه  تكتب ورقة فيها النتائج توقع من مشرف المختبر  يكتب تقرير مفصل عن التجربة |
| beaker  glass rod  washing bottle | 2  1  1 |

**Procedure:**

1. Dissolve (0.5 gr) of CuSO4.5H2O in (5 ml) of distilled water in a beaker.
2. Dissolve (0.75 gr) of Na2SO3and (0.5gr) of NaCl together in (10 ml) of distilled water in another beaker.
3. Mix the two solutions in one beaker, a green precipitate will be formed and it will quickly dissolve and turns into a soluble solution.
4. Dissolve in another beaker (0.5 gr) of borax in (10 ml) of distilled water and then boil the solution.
5. Add the mixture of step (3) to the boiling solution of step (4) drop wise with stirring; a yellow precipitate will be formed, which will turns into a dark color with boiling continued for half an hour.
6. After half an hour red crystals will be formed.
7. Filter the solution using filter paper, dry the red crystals, report the yield and then calculate the percentage.