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| **Experiment No. (3)**  **Preparation of HexaThiourea Lead (II) Nitrate [Pb{Cs(NH2)2}6](NO3)2:** | | | | |
| المواد الكيميائية خزانة الابخرة رقم (1) | الزجاجيات خزانة رقم (1) | | المواد الكيميائية الصلبة بجانب الموازين (1و2) | * + الملاحظات |
|  | نوع | عدد | * (0.25 gr) of lead nitrate Pb(NO3)2 * (0.33 gr) of thiourea (NH2)2-C=S | Filter paper توضع على المنصة distilled water في قناني الغسيل  ice bath; تاخذ مكعبات الثلج وتوضع في بيكر او جفنه |
| beaker  glass rod  washing bottle | 2  1  1 |

**Procedure:**

1. Dissolve (0.25 gr) of lead nitrate Pb(NO3)2 in (5ml) of distilled water in beaker then heat it.
2. Dissolve (0.33 gr) of thiourea (NH2)2-C=S in (5 ml) of distilled water and then heat it
3. Mix the two solutions in one beaker and then cool the mix with ice bath; this will lead to produce separated colorless crystals in the form of needles.
4. Filter the solution, dry the crystals and weight out them.
5. Calculate the percentage of the complex.