**1-physical properties of Normal urine:**

|  |  |
| --- | --- |
| Test | Result |
| Volume (24 hours) |  |
| Color |  |
| Appearance |  |
| Odour |  |
| pH |  |
| Specific gravity |  |

**2-Detection of some Normal Organic and inorganic constituents of Urine:**

**-Organic constituents:**

**Creatinine**: 5 ml of urine + 1 ml of saturated solution of picric acid + 1m of 10% sodium hydroxide solution

**Uric acid**: 2 ml of Urine+ 1 ml of Bendect reagent then heat in a boiling water bath for 3 minuets

|  |  |
| --- | --- |
| Test for: | Result |
| Creatinine |  |
| Uric acid |  |

**-Inorganic constituents:**

**Chlorides**: 5 ml of Urine+ 5 drops of 2N silver nitrate

**Phosphate** : 5 ml Urine+ 5 ml of concentrated nitric acid + 4 ml saturated ammonium molybdate solution

**Bicarbonate** : 5 ml of Urine + 4 drops of Hcl

**Sulphate**:10 ml of Urine + 1 ml of diluted HCl + 4 drops of 5% barium chloride solution

**Ammonia**: 5 ml of Urine+1 ml of 10% sodium hydroxide solution then boil.

|  |  |
| --- | --- |
| Test For | Result |
| **Chlorides** |  |
| **Phosphate** |  |
| **Bicarbonate** |  |
| **Sulphate** |  |
| **Ammonia** |  |