

TEST	OBSERVATION	INFERENCE
2) <u>TEST FOR $\text{SO}_4^{2-}, \text{SO}_3^{2-}$</u> NRS + 1ml dil. HCl + 1ml $\text{Ba}(\text{NO}_3)_2$ + centrifuge	White ppt insoluble in conc. HNO_3	SO_4^{2-} is present
<u>CT. FOR SO_4^{2-}</u> NRS + acetic acid + lead acetate	White ppt insoluble in conc. HNO_3	SO_4^{2-} is confirmed

Therefore, ANIONS PRESENT ARE $\Rightarrow \text{Cl}^-, \text{SO}_4^{2-}$

WET TEST FOR CATIONS :-

Mixture + water $\rightarrow$ Solution & use it as water-
Extract (W.E.)

TEST FOR NH_4^+

1) W.E + 1ml NaOH (boil)	Smell of NH_3 , Turmeric paper turns brown with NH_3 fumes	NH_4^+ present
2) W.E. + Nessler's Reagent	Reddish brown ppt	NH_4^+ is confirmed