



# European Pedagogics and Nutrition

## Detection of chloride ions in water



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## Effects of chlorine deficiency (hypochloraemia)

muscle cramps, muscle weakness  
dizziness, headache, tiredness,  
problems with memory and concentration.



## Effects of excess chloride in water on humans organism

regional failure  
hair weakness,  
Irritations of the mucous membranes of the eyes,  
skin irritation, breathing disorder  
hypertension.



## Detection of chloride ions in water

- ▶ Transfer approximately 5 ml of salt solution and iron (III) chloride solution
- ▶ Add a few drops of silver (V) nitrate.
- ▶ Observation of the precipitate confirms the presence of chloride ions in the solution.

