



GIT 5 INTESTINE OF NITRIC ACID(CORROSIVE)

GROSS

specimen shows Superficial erosion of intestine is seen and intestine of HNO₃ poisoning with darken discoloration

SALIENT FEATURES

- Colorless, odorless, burning taste, oily, non-fuming
- Combines with organic matter and produces an **yellow discoloration** of tissue due to the production of **picric acid (xanthoproteic reaction)**.
- Fatal Dose: 10 to 15 ml.
- Fatal Period: 12 to 24 hours.
- oesophagus and stomach discoloration, which may appear **brown or brown-black due to acid haematin**.
- inhalation of fumes, the larynx, trachea, and bronchial tubes are **congested and lungs are oedematous**.

TEST:

- strong ferrous sulphate solution and sulphuric acid are added to a solution containing nitric acid, a **brown ring** is formed at the junction of the two fluids.

Medico-legal Aspects

- Most cases of poisoning are the result of an **accident or suicide**.
- Homicide by this acid is rare.