



PROTRACT WS*

Potent Poultry Gut Acidifier

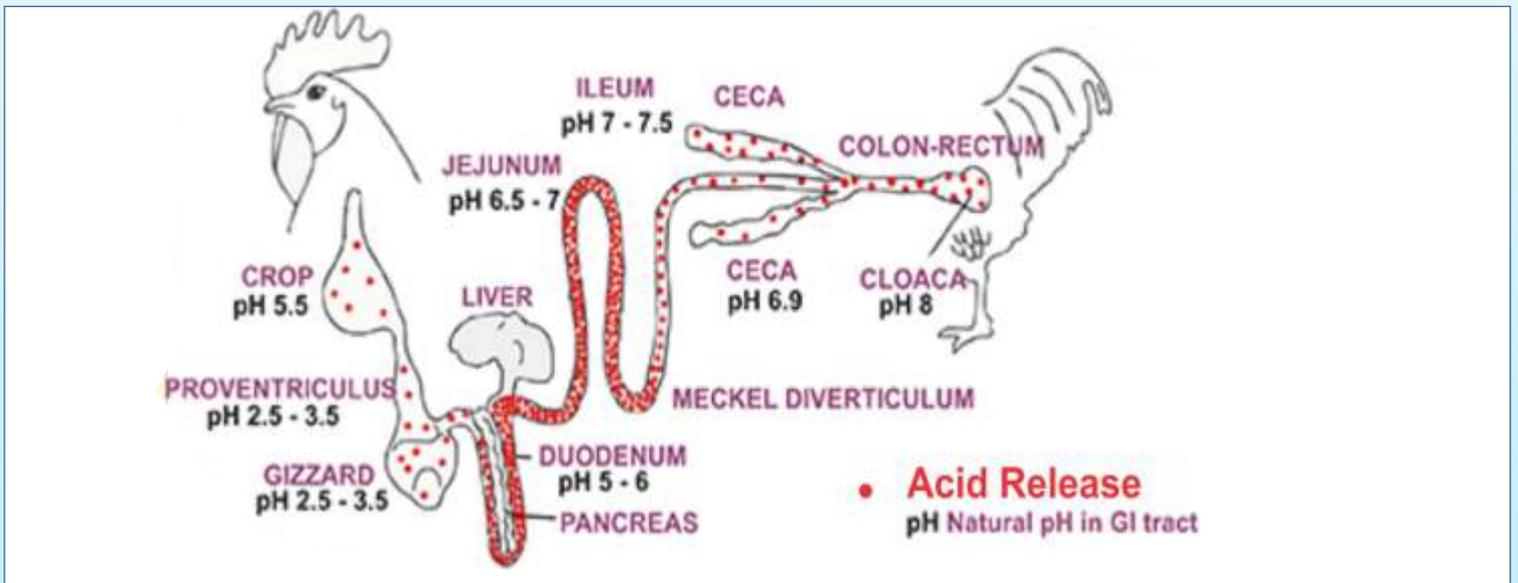
The quality of drinking water for poultry and its effect on performance have been of concern to poultry producers. Water makes up a large proportion of the body of the chicken, from 55% to 75%, therefore it is essential for life.

A rule of thumb for water is that the bird consumes from 1.5 to 2 times as much water as it does feed. It is expected that contamination in drinking water will negatively affect poultry performance.

Antibiotic growth promoters have been banned in many countries. In light of this situation, animal growers have been actively looking for an efficacious alternative.

Acid salts are the most promising alternative. Apart from pH reduction of the GIT content to reduce the pathogenic bacterial count, nondissociated (non-ionised, more lipophilic) acid salts can penetrate the bacteria cell wall and disrupt the normal physiology of certain types of bacteria.

Protract WS* is a potent acidifier for poultry. The low pKa value of **Protract WS*** helps in protecting the animal's gut from colonisation by enteropathogens such as, E. coli, Salmonella, Campylobacter and Clostridium. Reduction of pathogenic bacterial colonies in the small intestine prevents damage to the villi, which are essential for nutrient absorption. Positive effect on gut mucosa/ morphology stimulates pancreatic secretion which leads to improved digestion, absorption and retention of protein, amino acids and phosphorus



Composition: Specially formulated acid sulfate salts & proprietary ingredients

Benefits

- **Protract WS*** enables acidification of the entire gut to improve digestion, growth rates and feed efficiency.
- The low pKa value of **Protract WS*** helps in protecting the animal's gut from colonisation by enteropathogens such as, E. coli, Salmonella, Campylobacter and Clostridium.
- **Protract WS*** reduces intestinal disorders resulting from colonization of coliform like pathogenic bacteria.
- Positive effect on gut mucosal morphology stimulates pancreatic secretion which leads to improved digestion, absorption and retention of nutrients.
- **Protract WS*** is used as a source of dietary Sodium, which is essential for maintaining proper DEB.
- **Protract WS*** increases the shelf life of the feed by preventing formation of mold and bacteria.
- No resistance, residues or withdrawal time





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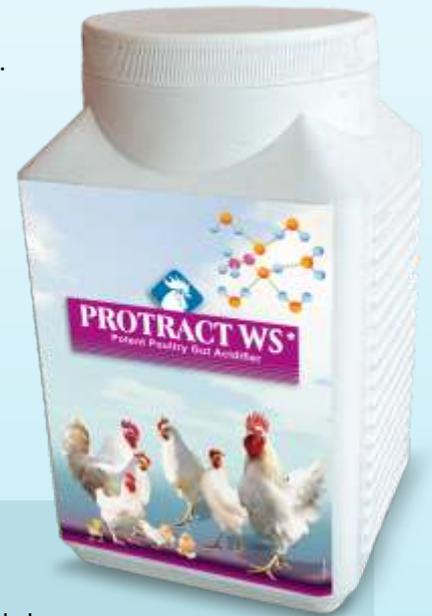
Through Feed: Normal feed, Pelleted feed, Crumbs & Mash : 3 - 4 Kg/ton of feed

Through Water:

- Determining **Protract WS*** Stock Solution Strength
- Test existing water pH and alkalinity in water lines.
- Determine which target pH is desired for acidification from the Usage Rate Chart below.
- Determine **Protract WS*** dosage from Usage Rate Chart.
- Add **Protract WS*** dosage to 15 litres of clean water to create stock solution.
- Add the PWT® stock solution at a rate of 250 ml of stock solution per 30 litres of drinking water or dosage level 1:120.

Note: More or less **Protract WS*** Stock Solution may be needed to achieve desired target pH.

Acidification	Dosage of Protract WS*
Target pH of 3.0-4.0	
pH 7-8 & Alkalinity < 115	450 gms
pH 8-9.1 & Alkalinity 115-192	900 gms
pH 8.5-9.2 & Alkalinity 231-350	1350 gms
pH > 8.9 or Alkalinity > 350	1800 gms



- Prime drinking system with **Protract WS*** prior to placement. Administer continuously the first 7-10 days after placement.
- Administer **Protract WS*** 1-3 times per week and/or 48-72 hours before and after each feed change.
- Administer **Protract WS*** continuously the last 24-48 hours prior to catch. Heat Stress or Other Stress Periods Administer **Protract WS*** continuously during times of heat stress and reduced feed consumption

Broiler breeders

- Prime drinking system in breeder house with **Protract WS*** prior to transfer. Administer continuously the first 7-10 days after transfer into breeder house.
- Administer **Protract WS*** continuously for 48 hours before and after any stress period such as vaccination, heat stress, etc.

Layers

- Prime drinking system in layer house with **Protract WS*** prior to transfer. Administer continuously the first 7-10 days after transfer into layer house.
- Administer **Protract WS*** continuously for 48 hours before and after any stress period such as vaccination, heat stress, etc.
- Administer **Protract WS*** continuously from 48 hours before beginning of molt until 7 days after birds resume full feeding

Please consult your Nutritionist or Veterinarian for specific dosage, since dosage of acid combination depends on stage and age of birds & history of disease incidence on farm.

Storage: Stored in dry, ventilated and cool place. If there is remainder in the bag after opened, sealed store is necessary, avoid moisture.

Presentation : Powder, 1 Kg Jar