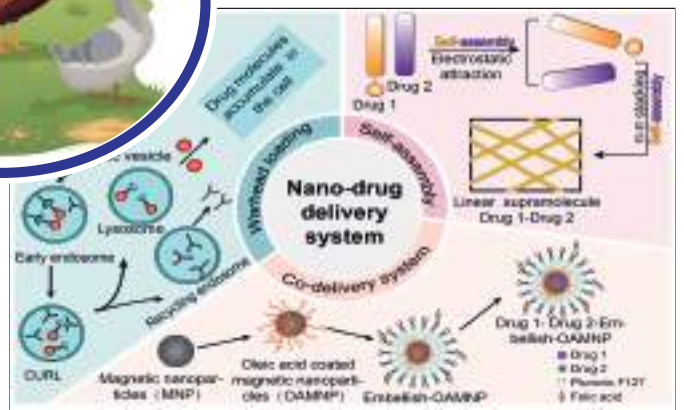
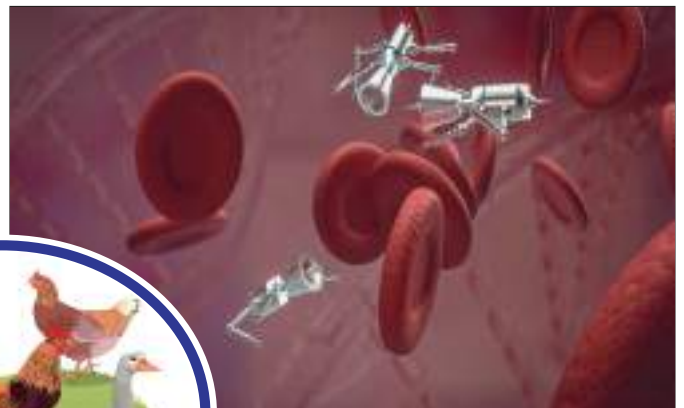


Poultry Antibiotic

NANO TECHNOLOGY To save our Poultry



NANO MEDICINE

Product Name

Flofencol- Florfenicol 20%

Tilcosin S Sol - Tilmicosin Phosphate 20%

Enrotril - Enrofloxacin 20%

Manufacturer by



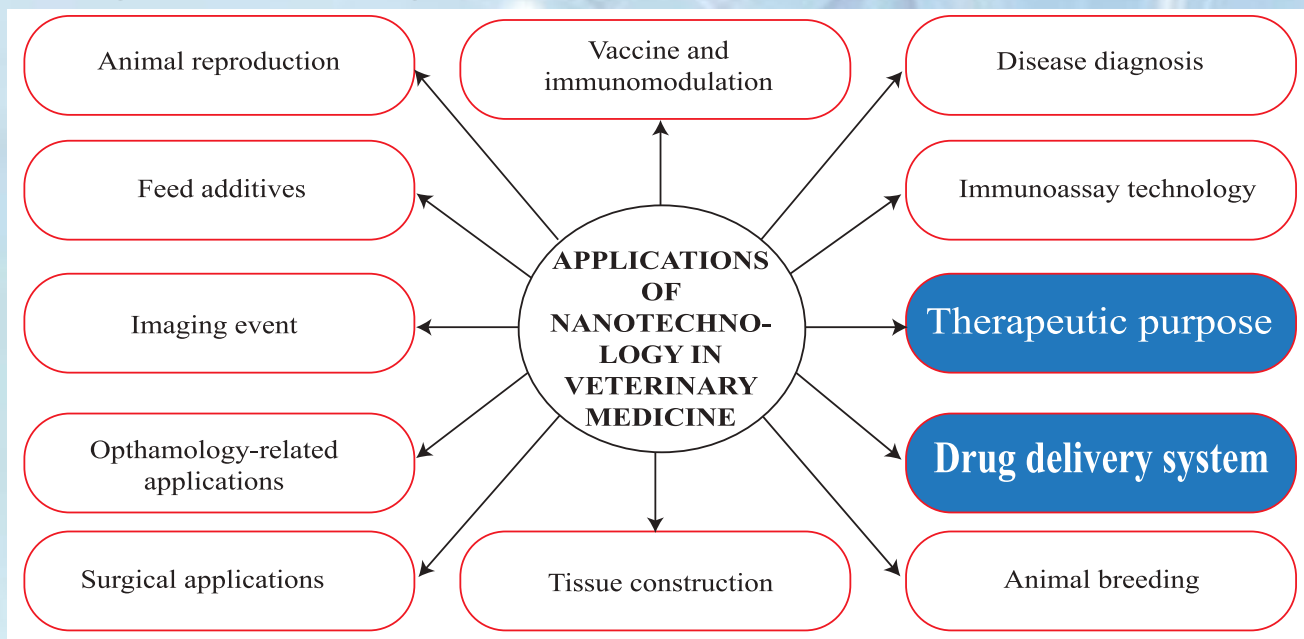
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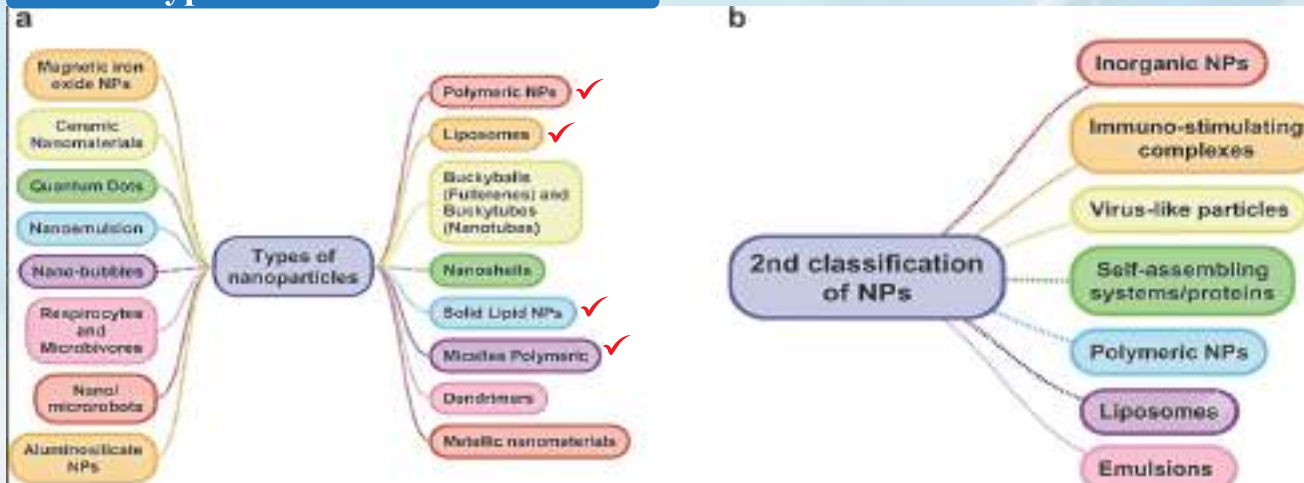


AXON ANIMAL HEALTH, BANGLADESH.
AHCAB NO- 506, DLS REG NO- 458
www.axonanimalhealth.com
Hotline : 01407-089290

Nanotechnology in veterinary medicine revolutionizes animal health-care by enabling ultra-precise drug delivery, advanced diagnostic tools, and highly effective nano- vaccines. It directly benefits both companion pets and livestock by increasing treatment success, drastically reducing side effects, Combating Antimicrobial Resistance and minimizing the risk of drug residues in meat and milk.



Various types and classification of NPs



Here is a breakdown of the core advantages & key application:

1. Targeted Drug Delivery: Nanocarriers (like liposomes and polymeric nanoparticles) deliver therapeutic drugs exactly to diseased tissues (e.g., tumors or infected organs) without harming healthy cells. This maximizes efficacy while minimizing toxicity and side effects. R ResearchGate +1

2. Combating Antimicrobial Resistance: Nanoparticles like silver and copper disrupt bacterial cell walls and combat drug-resistant pathogens (such as MRSA) more efficiently than conventional antibiotics, often allowing veterinarians to use lower dosages. (www.journalajravs.com.)

3. Reduced Drug Residues: Because treatments are more precise and require smaller amounts, chemical or antibiotic residues in meat and milk—a major concern in agriculture—are significantly reduced. R ResearchGate

4. Safer Food Supply: By improving the bioavailability and absorption of veterinary medications, nanotechnology significantly reduces drug residues left in animal products like milk and meat, which is crucial for public safety. R ResearchGate +2

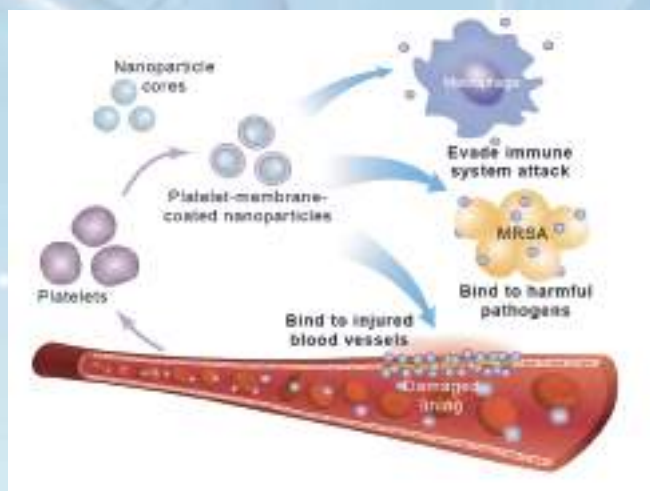
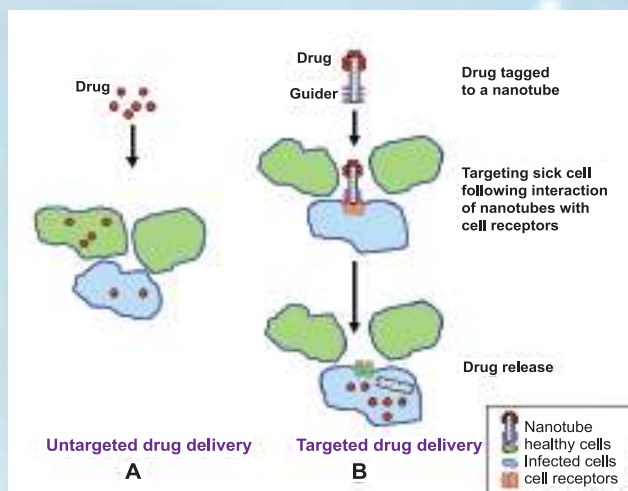


Fig: Mechanism of killing Pathogen Via Using Nano Teconology & Nano Medicine.

5. PEGylation of Nanoparticles: Coating the surface of drug-carrying nanoparticles (such as polymeric nanoparticles, liposomes, and nanogels) with PEG—a process known as PEGylation—is a cornerstone in veterinary nanotechnology. R ResearchGate +1

6. Evading the Immune System: The PEG (Polyethylene glycol) coating makes the nanoparticles highly hydrophilic and electrically neutral, preventing the animal's immune system from clearing them too quickly (opsonization). This allows the medication to circulate longer and reach specific target tissues or tumors. R ResearchGate -4

7. Solubilization and Bioavailability: Propylene glycol is routinely utilized as a nanoscale solvent and vehicle for injectable therapeutics. Because of its nanoscopic and chemical properties, it vastly improves the bioavailability of both water-soluble and water-insoluble medications. National Veterinary Services +3

8. Targeted Drug Delivery & Gene Therapy: PEG hydrogels and nanocarriers are explored for delivering antimicrobial drugs, hormones, vaccines, and siRNA. They allow controlled, sustained drug release triggered by the local environment (e.g., pH or temperature changes). R ResearchGate +4
Poly-gamma-glutamic acid (γ -PGA) is an edible, biodegradable, and non-immunogenic biopolymer. In veterinary nanotechnology, it is used as a safe nanocarrier for targeted drug delivery, sustained-release antimicrobials, and effective vaccine adjuvants. It protects active ingredients from degradation and improves their bioavailability in animals. National Institutes of Health (.gov) +3

Flofencol 20%

Florfenicol 20% (Nano Medicine) Oral Solution (Vet)



Composition (1L contains)

Florfenicol	200g
Polyethylene glycol	80g
Propylene glycol	400g
Purified water	q.s.



Indications

Poultry: Flofencol 20% is a broad spectrum antibiotic against highly active *Pasturella* spp., *Haemophilus*, *E. coli*, *Salmonella*, *Mycoplasma* spp., *Chlamydia* spp. It has a broad spectrum activity in the treatment of Respiratory Disease, enteritis, colibacillosis, septicemia, and chronic respiratory infection in poultry, turkey, rabbits, calves and lambs.



Dosage and Administration

1ml per 2-4 L drinking water up to 3-5 days.
or according to prescription of veterinary doctor (DVM)



Package

250ml



Shelf life

24 months from manufacturing date.



Storage conditions

Storage conditions: Store in a dry and cool place away from direct sunlight. (1~30°C. tight)



Withdrawal periods

Poultry - 5days, Swine - 16days

Cautions

1. Continuous administration may cause temporary inflammation in cloaca area.
2. Use under veterinary prescription.
3. Do not use for layer chicken.
4. Follow the administration and dosage.
5. Sludges can be made at different rate.
6. Do not use galvanized water bucket.
7. Do not mix chlorinated water with this product.
8. Keep out of reach of children and approach of animal.



Manufacturer by



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Tilcosin S sol

Tilmicosin Phosphate 20% (Nano Medicine) Oral Solution (Vet)



Composition (1L contains)

Tilmicosin Phosphate	200g
Propylen Glycol	250g
Phosphoric acid	q.s.
Purified Water.....	q.s.



Indications

Treatment of bacteria infections by Tilmicosin sensitive bacteria.

1. Swine: *Pasteurella multocida*, *Actinobacillus pleuropneumoniae*, *Mycoplasma hyopneumoniae*
2. Poultry: *Mycoplasma gallisepticum*, *Mycoplasma synoviae*



Dosage and Administration

1ml per 2-3 L drinking water up to 3-5 days.
or according to prescription of veterinary doctor (DVM)



Package

250ml



Shelf life

24 months from manufacturing date.



Storage conditions

Store in a dry and cool place avoiding direct sunlight.
(1~30°C. tight)



Withdrawal periods

Poultry - 10 days
Swine- 7 days.

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Cautions

1. Do not use in animal undergoing hypersensitivity or shock reactions to Tilcosin S liq. and Macrolide antibiotics.
2. Do not combine with Lincosamide or other Macrolide antibiotics.
3. Do not use in pregnant and breeding pigs.
4. Shake well before administering.
5. Keep out of reach of children and approach of animal to prevent safety accident.
6. Follow the instructions for storage to avoid change in efficacy and stability.
7. Please do not use the product that is out of date, and then discard safely.
8. After open the product, use it as soon as possible and the rest of the product should be protected from light and humid in a tight-sealed container.
9. Please discard the containers or wrappers safely and do not reuse for other purposes.
10. For veterinary use only.



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ENROTRIL

Enrofloxacin 20% (Nano Medicine) oral solution



Composition (Each 1L contains)

Enrofloxacin	200g
Potassium hydroxide	q.s.
Purified Water	q.s.



Indications

Treatment of bacteria diseases sensitive to Enrofloxacin
Poultry- E.coli

Mycoplasma gallisepticum

Salmonella typhimurium, Salmonella pullorum

Haemophilus paragallinarum



Dosage and Administration

Enrofloxacin 20% 1ml per 2-4 L drinking water
up to 3-5 days.

or according to prescription of veterinary doctor
(DVM)



Package

250ml



Shelf life

24 months from manufacturing date.



Storage conditions

Store at room temperature (1-30°C) and dry place.
Also store in a tight container.



Withdrawal periods

Poultry: 5-7 days for meat & eggs.

Cautions

- 1) Do not use to animals undergoing hypersensitivity or shock reactions.
- 2) Do not administer to animals with hepatic dysfunction or kidney disorder.
- 3) Dysarthrosis(lameness, some pain or achondroplasia (etc) may occur in young animal.
- 4) Gastroenteric trouble(vomit, loss of appetite, diarrhea or stomachache) may occur rarely.
- 5) Central nervous system disorder(dizziness, anxiety, pain, depression, ataxia or seizure)may occur. Do not use for animal having central nervous system disorder.
- 6) Hypersensitivity reactions or crystalluria may occur.
- 7) In case of excessive administration (more than 10 times), vomit or anorexia may occur.
- 8) Do not combine with macrolide antibiotic or tetracycline antibiotics.
- 9) Medicines containing Mg, Al or calcium ion may make absorption rate lower.
- 10) It may elevate blood concentration of Theophylline or Caffeine higher when used with Theophylline, Caffeine.
- 11) Probenecid can make high blood concentration of his product by disrupting renal tubule.
- 12) It may aggravate kidney toxicity of Cyclosporine when used with Cyclosporine.
- 13) It may go into convulsions rarely when used with non-steroidal anti-inflammatory drug.
- 14) Do not use for layer chickens.
- 15) Use within 24hrs after dilution.
- 16) Mix well before use.
- 17) Keep out of reach of children and approach of animal.
- 18) Observe designated storage condition.
- 19) Please do not use the product that is out of date, and then discard safely.
- 20) After opened, use quickly and store in dry place after tight-sealing.
- 21) Do not reuse for other purposes
- 22) Use veterinary only
- 23) Use under veterinary prescriptions
- 24) Read the instructions carefully before use
- 25) Use only indicated animals because of the safety and efficacy
- 26) To avoid misuse or tolerance of the drug, please record the history of the animal drug used
- 27) Follow the administrations and dosages
- 28) Residual drugs in livestock food products can cause economic losses
- 29) Please discard the containers or wrappers safely and do not reuse for other purposes
- 30) Do not subdivide in other containers or wrappers to prevent misuses or quality declines
- 31) After open the product, use it as soon as possible and the rest of the product should be protected from light and humid in a tight-sealed container(if not, its titer might goes low by leaving the product in the air for long periods)
- 32) Do not combine with the same ingredient medicines because of misuse can cause accidents and economic losses
- 33) Unless you follow the withdrawal period, the drug might be residue in the animal body.
- 34) Remove immediately when the solution contact to skin or eyes, and then see the doctor as soon as possible.
- 35) Any inquiries about the product, please contact the manufacturer or importer

Manufacturer by



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