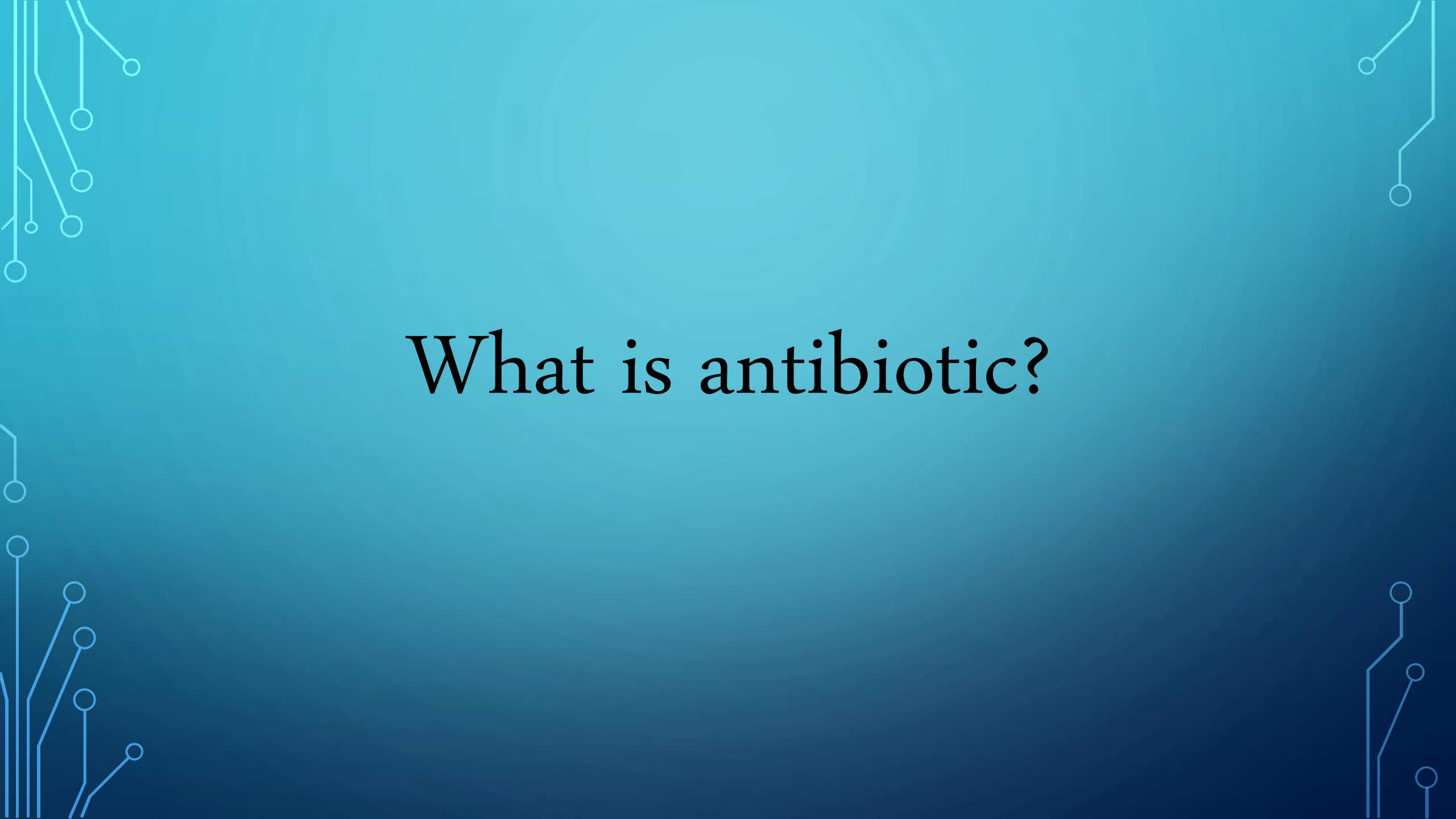
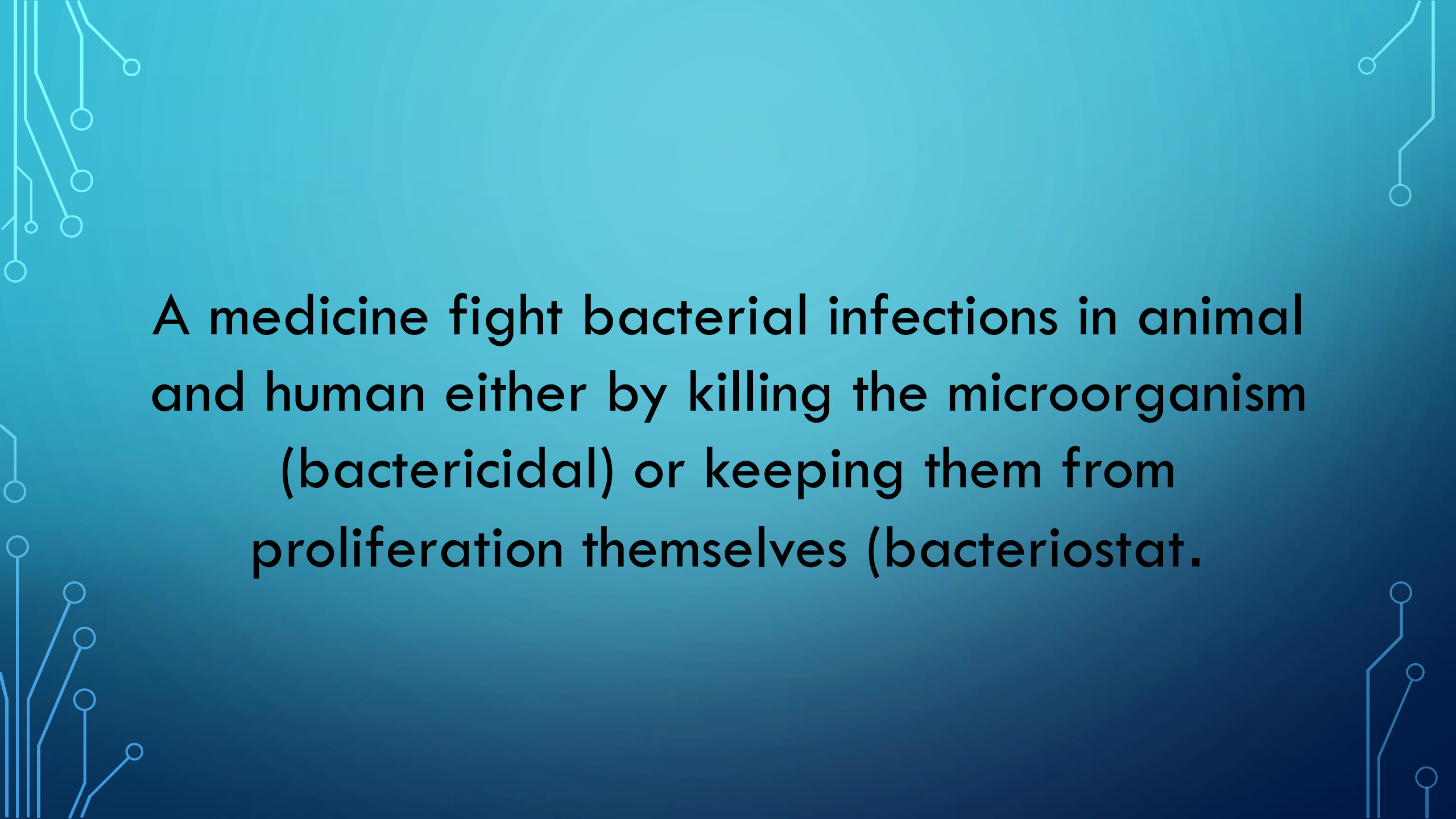


Antibiotics residues in egg

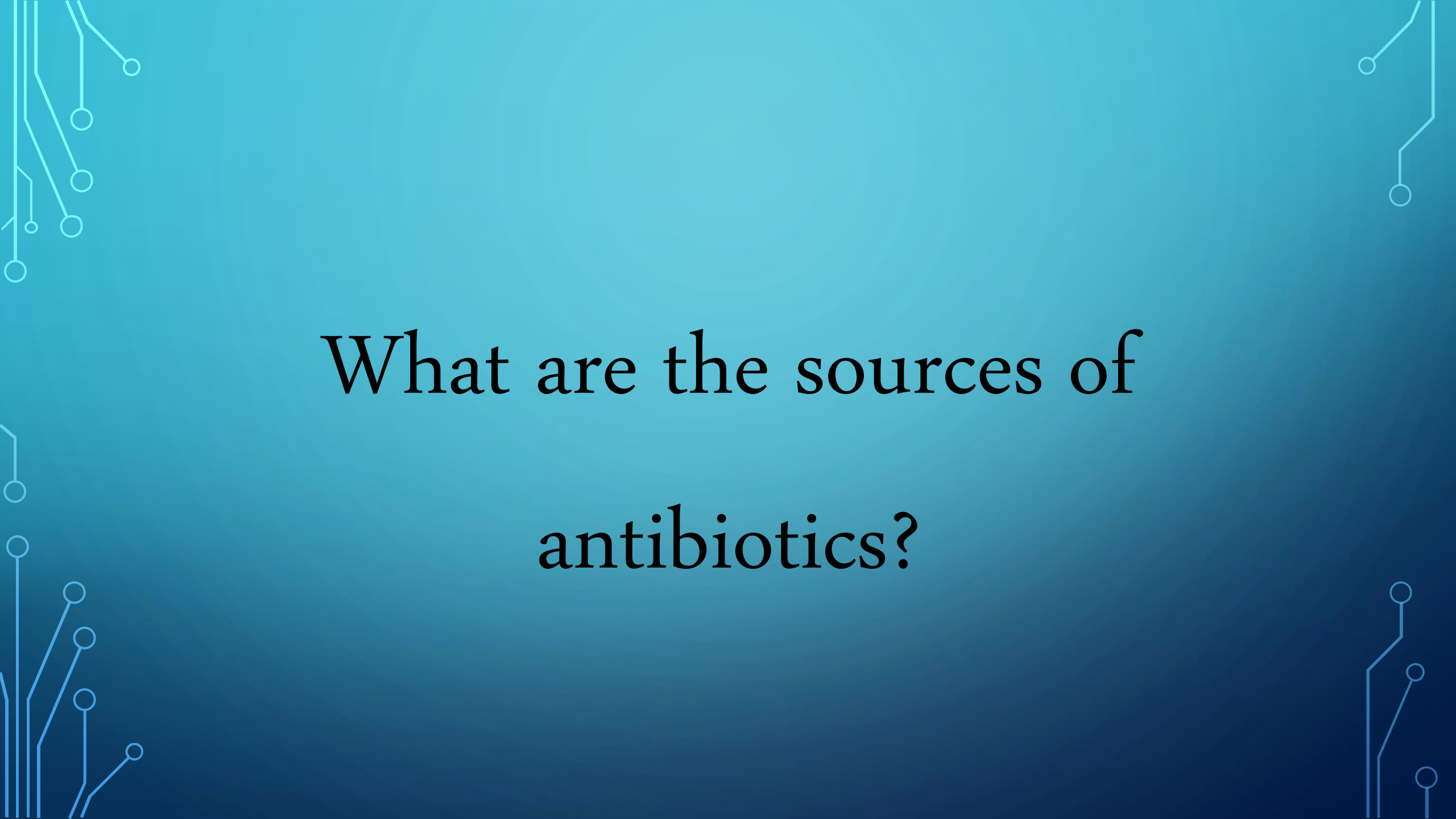


The background is a blue gradient. In the corners, there are white line art designs resembling electronic circuit boards or neural networks, with lines and small circles.

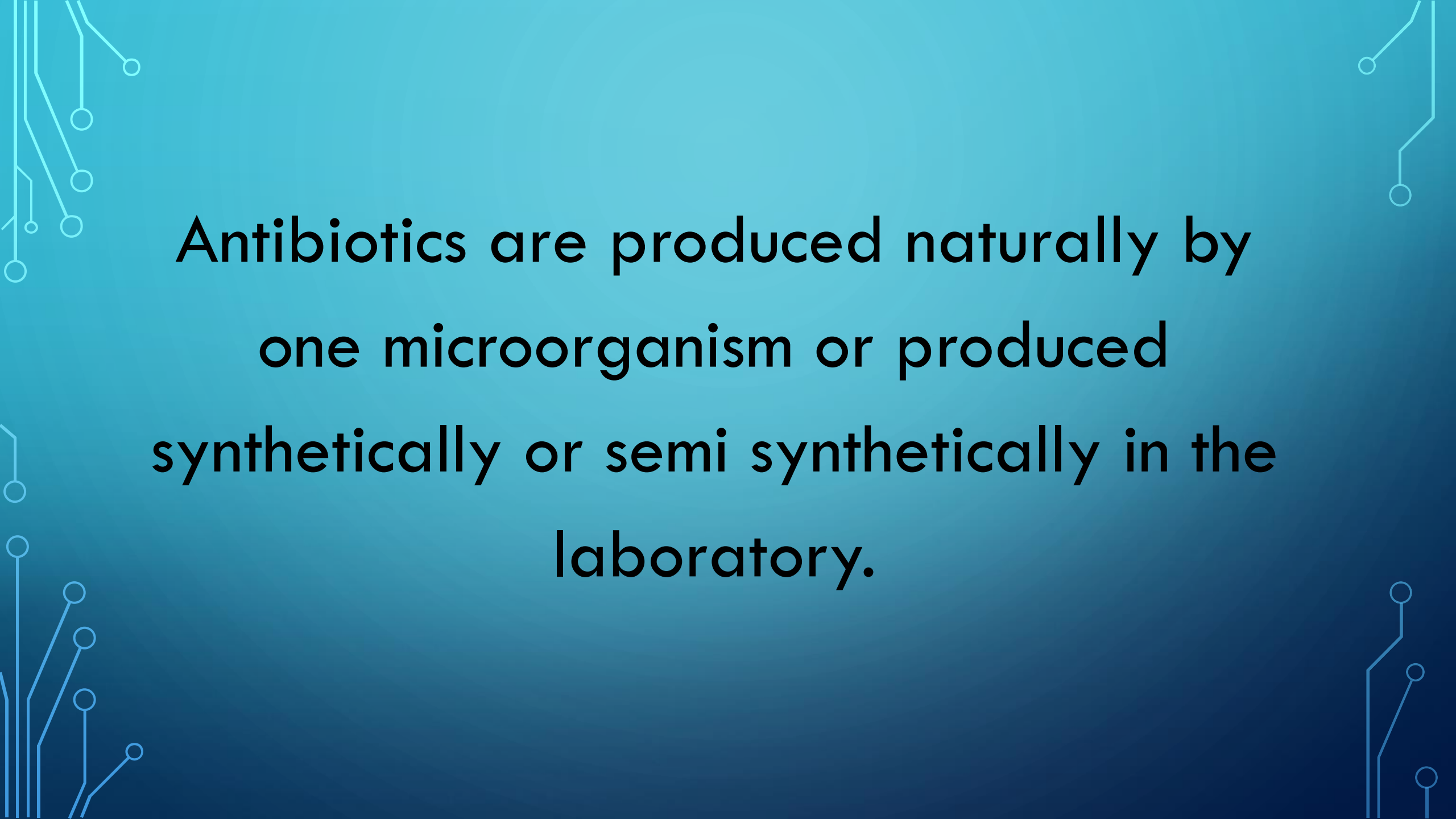
What is antibiotic?

The background is a blue gradient. In the corners, there are decorative white line art elements resembling circuit boards or neural networks, with lines and small circles.

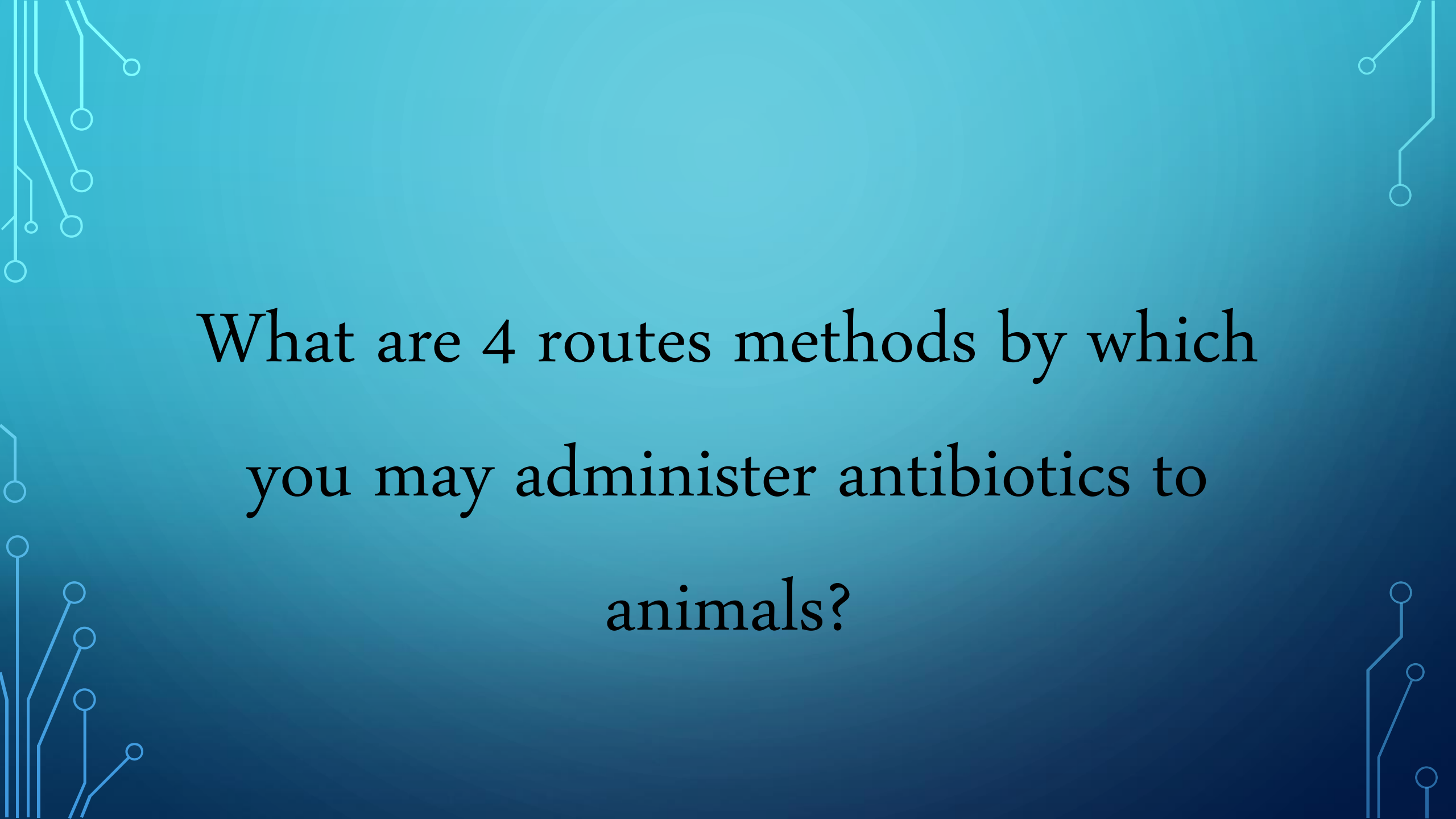
A medicine fight bacterial infections in animal and human either by killing the microorganism (bactericidal) or keeping them from proliferation themselves (bacteriostat).

The background is a blue gradient with decorative white circuit-like lines in the corners. The text is centered in a black serif font.

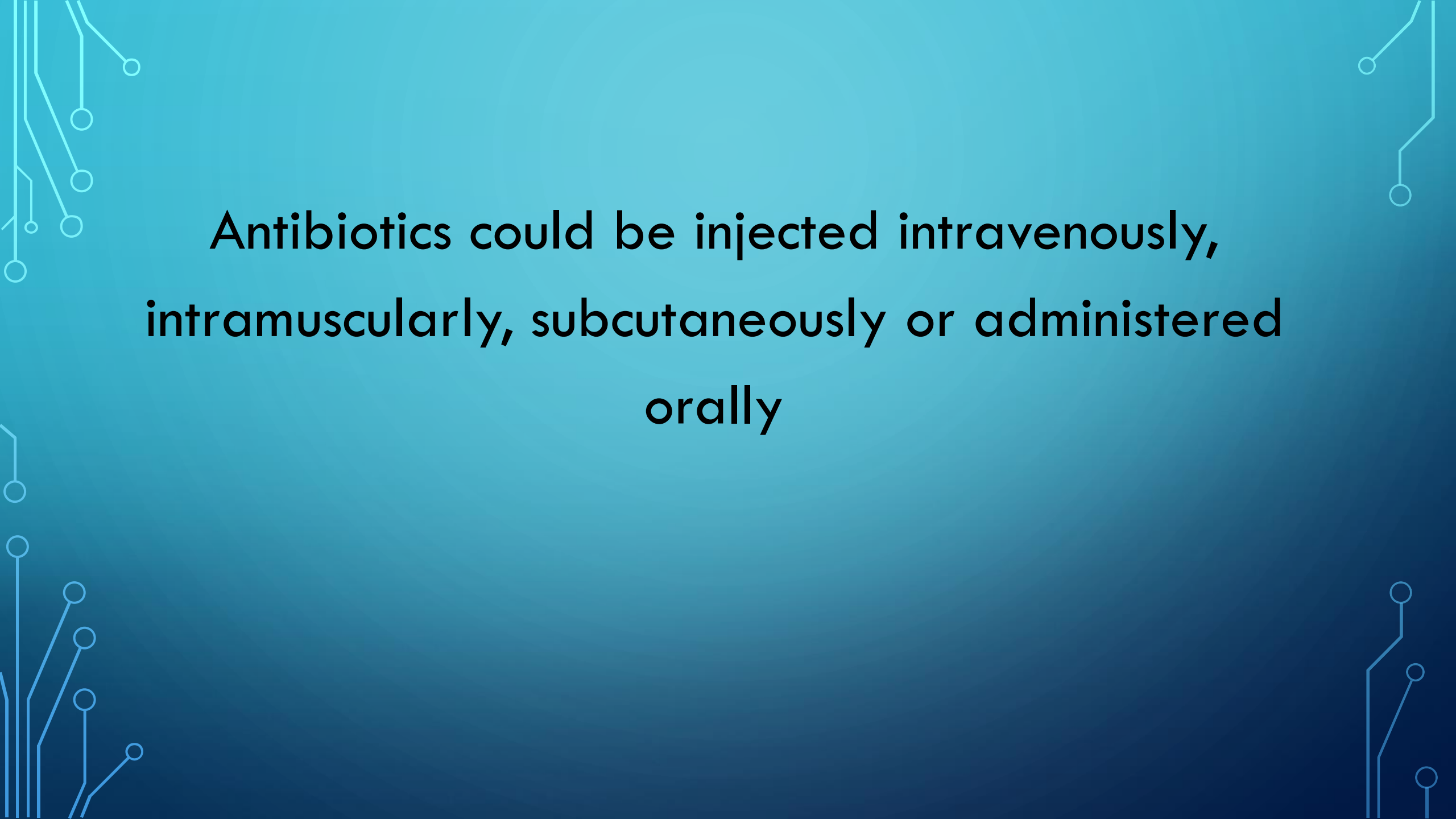
What are the sources of
antibiotics?

The background is a blue gradient with white circuit-like lines and nodes in the corners. The text is centered and reads:

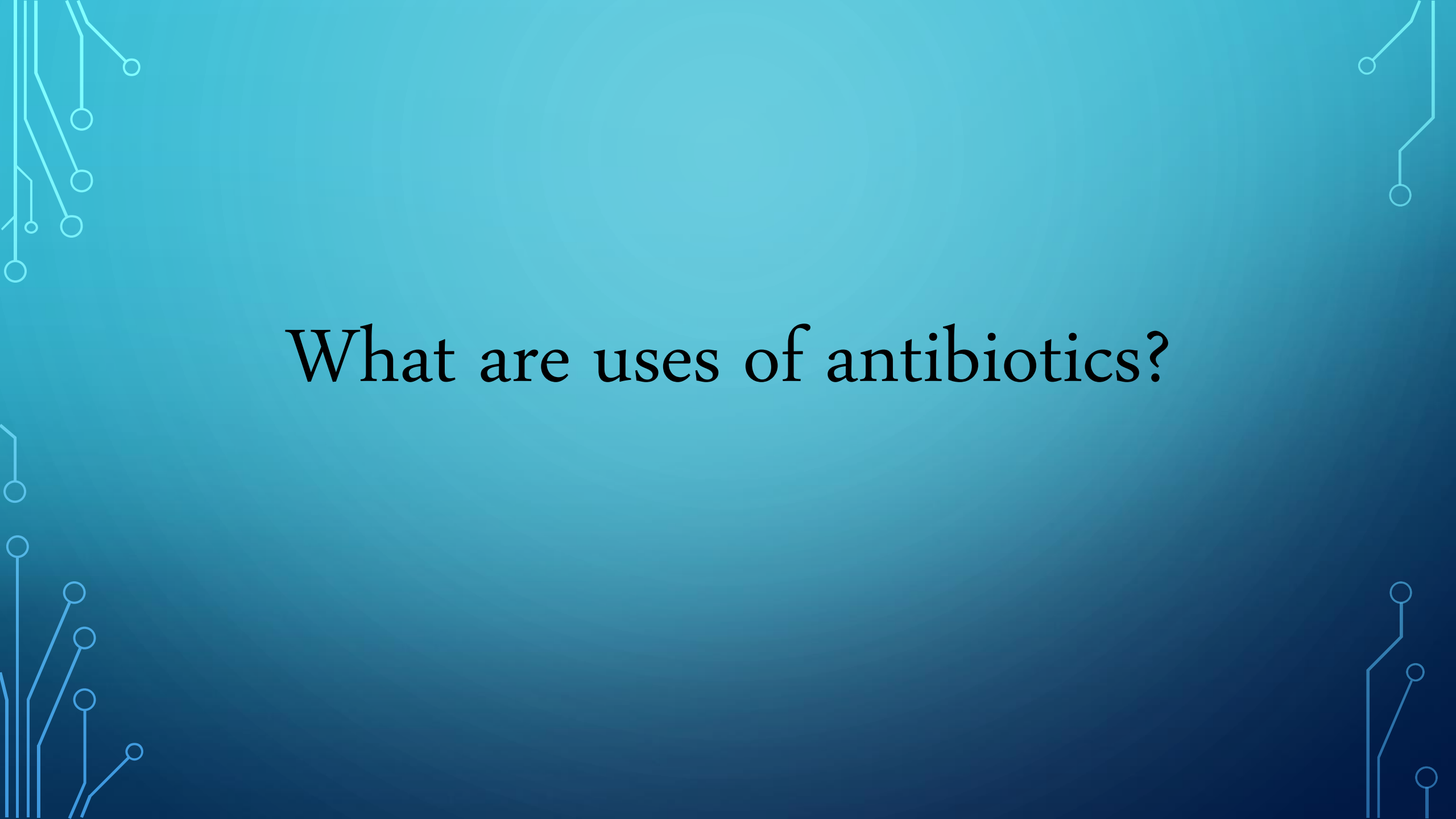
Antibiotics are produced naturally by
one microorganism or produced
synthetically or semi synthetically in the
laboratory.

The background is a blue gradient. In the corners, there are white line art illustrations of circuit boards or neural networks, with lines connecting to small circles.

What are 4 routes methods by which
you may administer antibiotics to
animals?

The background is a blue gradient with decorative white circuit-like lines in the corners. The text is centered and reads:

Antibiotics could be injected intravenously,
intramuscularly, subcutaneously or administered
orally

The background is a blue gradient. In the corners, there are white line art designs resembling electronic circuit boards or neural networks, with lines and small circles.

What are uses of antibiotics?



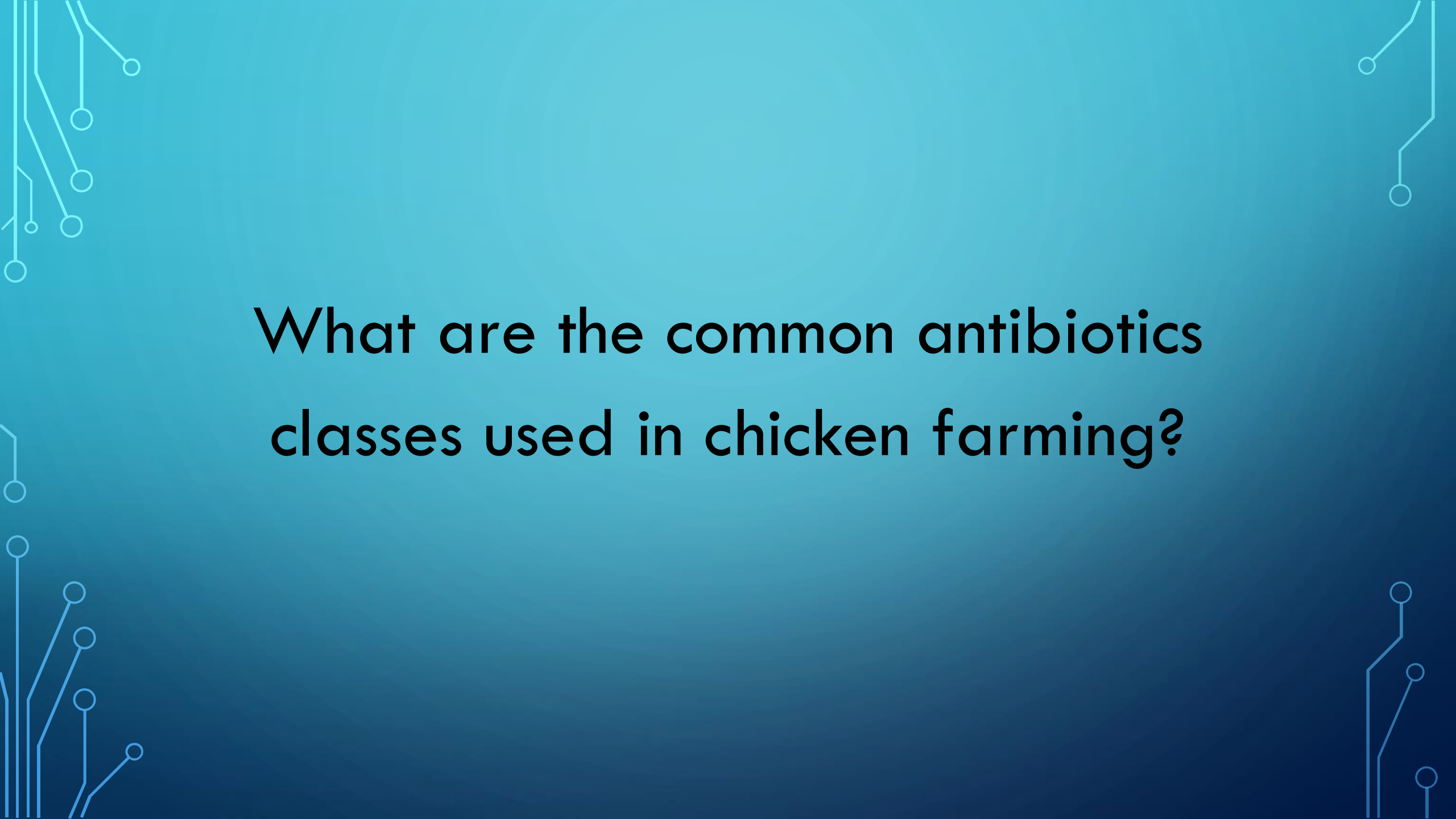
Antibiotics are generally used on farms animals for different functions include:

Antibiotics as therapy: Exposure of animal to high dose of antibiotic for relatively shorter periods

Antibiotics as prophylaxis: exposure of animal to moderate dose of antibiotic for longer time durations

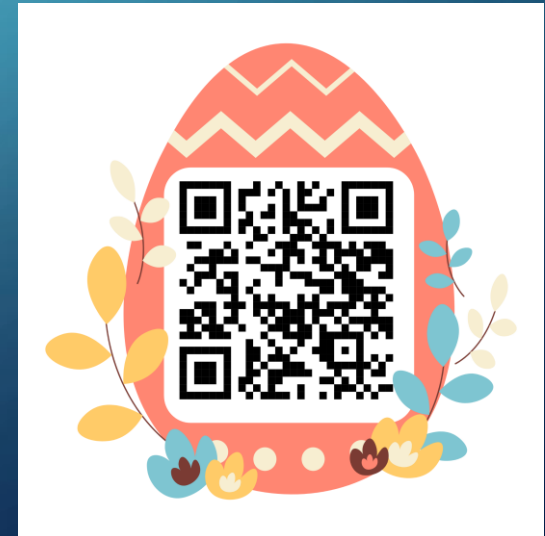
Antibiotics as growth promoters: exposure of animal to a low dose of antimicrobial for a very long duration or throughout the entire lifespan of the animals. Antibiotic growth promoters are inhibited the gut bacteria leaving more nutrients for animal to be absorbed for greater growth



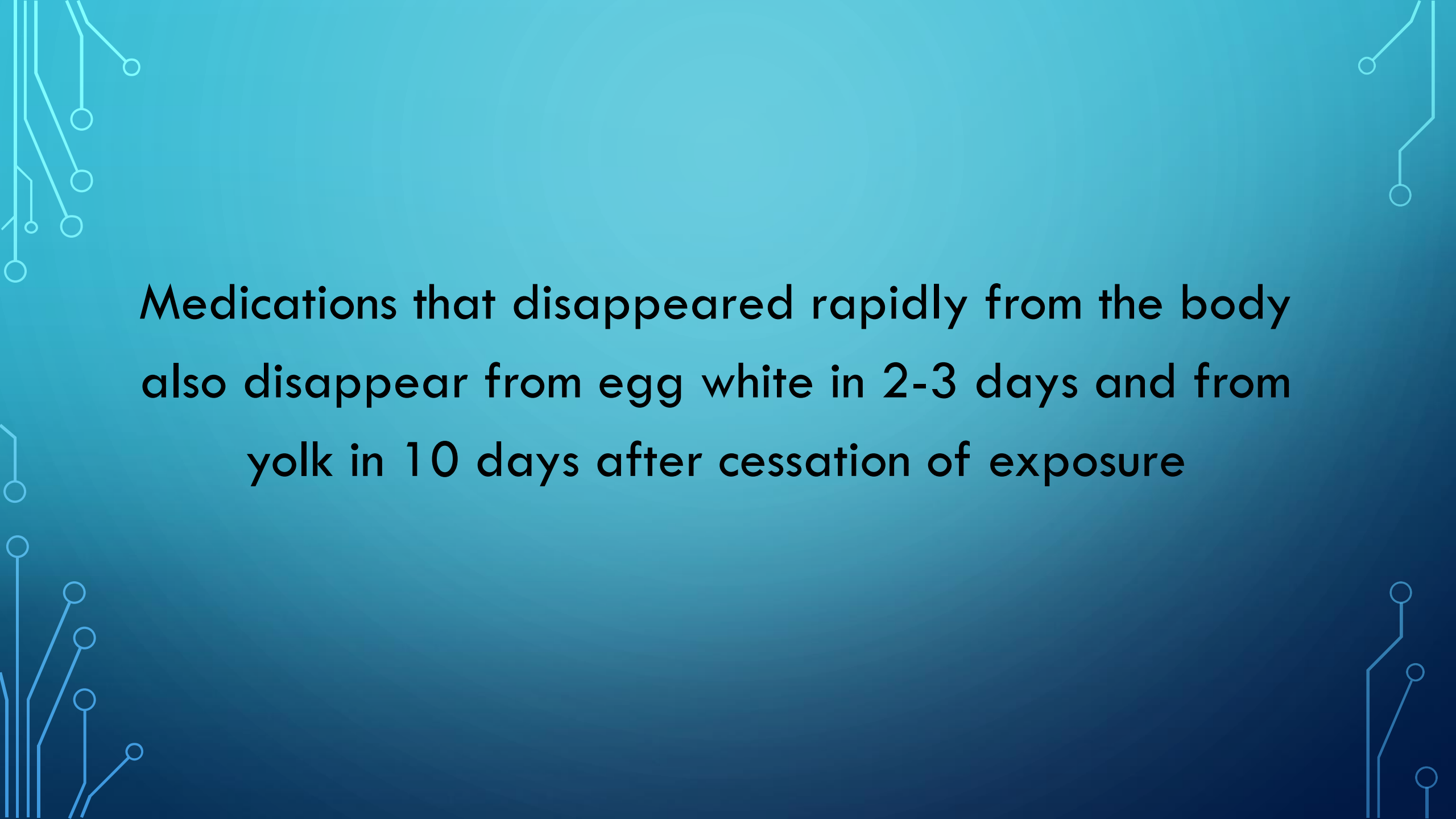
The background is a blue gradient with white circuit-like lines and nodes in the corners. The text is centered in a bold, black, sans-serif font.

**What are the common antibiotics
classes used in chicken farming?**

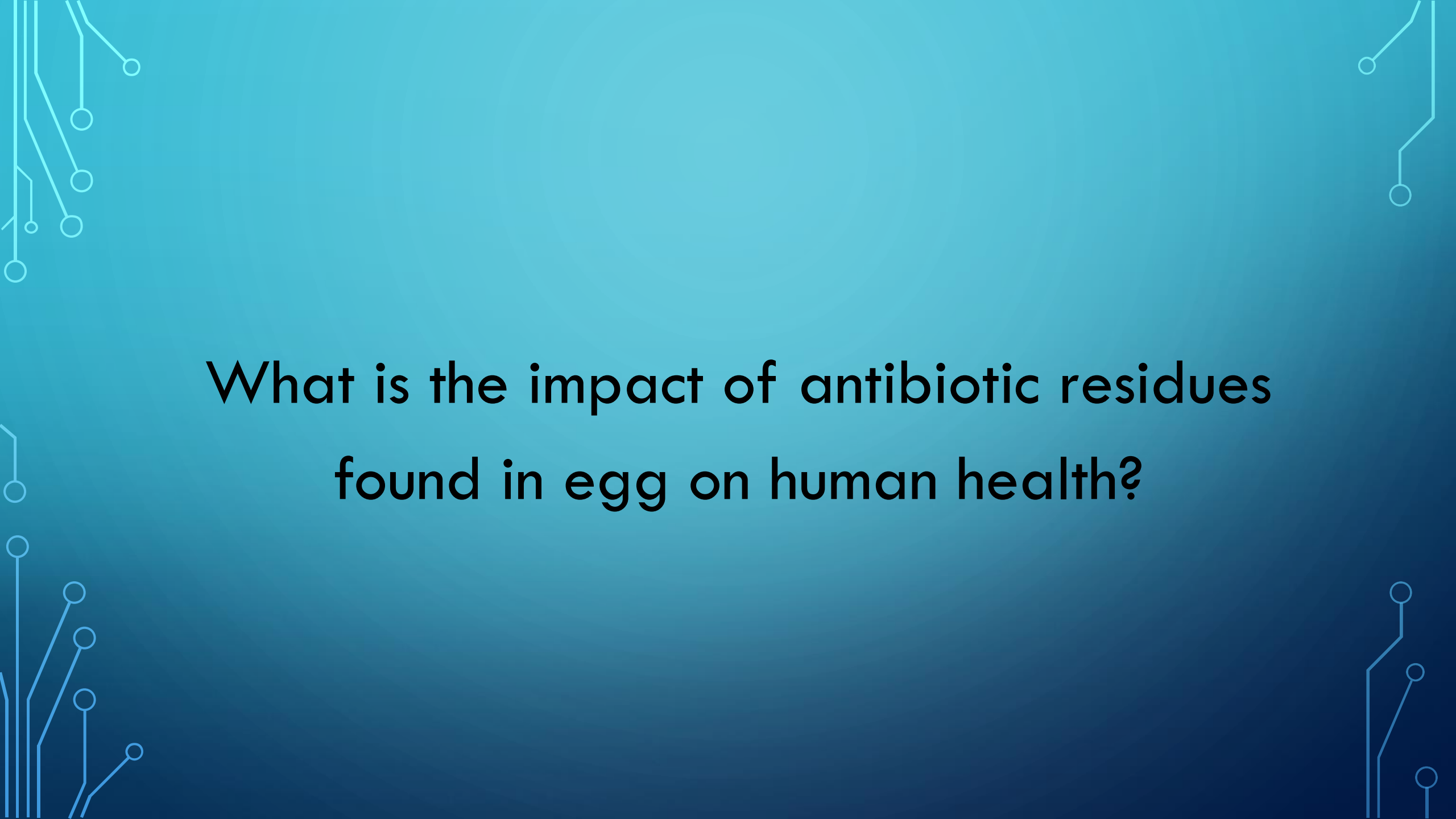
- Penicillines
- Tetracyclines
- Macrolides
- Aminoglycosides
- Fluoroquinolones
- Sulfonamides



Antibiotic	Derivatives	Mechanism of action	Indications	Recommended withdrawal time
Macrolide	<u>Tylosin</u> <u>Tilmicosin</u>	Binding to the 50S subunit of the bacterial ribosome and inhibiting translocation of peptidyl-tRNA from the A site to the P site	<u>Mycoplasmosis</u> Necrotic Enteritis <u>Ornithobacterium rhinotracheale</u>	Tylosin: 8 days <u>Tilmicosin</u> : 10 days
Aminoglycosides	<u>Neomycin</u> <u>Streptomycin</u> Spectinomycin Gentamicin	Binding to the 30S subunit of the bacterial ribosome and inhibiting translocation of <u>fMet</u> -tRNA.	Enterobacter Salmonella Shigella <u>Pseudomonas aeruginosa</u>	
Fluoroquinolones	Enrofloxacin Danofloxacin Flumequine Norfloxacin <u>Difloxacin</u>	Inhibiting DNA synthesis by promoting cleavage of bacterial DNA in the DNA-enzyme complexes of DNA <u>gyrase</u> and type IV topoisomerase	Salmonellosis Colibacillosis Fowl cholera Pseudomonas aeruginosa (enrofloxacin)	Several days
Tetracyclines	Chlortetracycline Oxytetracycline Doxycycline	Binding to the 30S subunit of the bacterial ribosome and preventing binding to those ribosomes of aminoacyl transfer-RNA.	Mycoplasma, Chlamydia, Pasteurella, <u>Ornithobacterium rhinotracheale</u> , Clostridium spp., Spirochetes and some protozoa	
Sulfonamides	Sulfacetamide, <u>sulfamethoxypyridiazine</u> , <u>sulfamethoxydiazine</u> , sulfamethoxazole, sulfadimidine, <u>sulfamethoxine</u> , sulfadiazine, <u>sulfafurazole</u> ,	Inhibiting utilization of resemble p-aminobenzoic acid (PABA), and hence DHF synthesis.		

The background is a blue gradient. In the corners, there are white line art designs resembling electronic circuit boards or neural networks, with lines and small circles.

Medications that disappeared rapidly from the body
also disappear from egg white in 2-3 days and from
yolk in 10 days after cessation of exposure

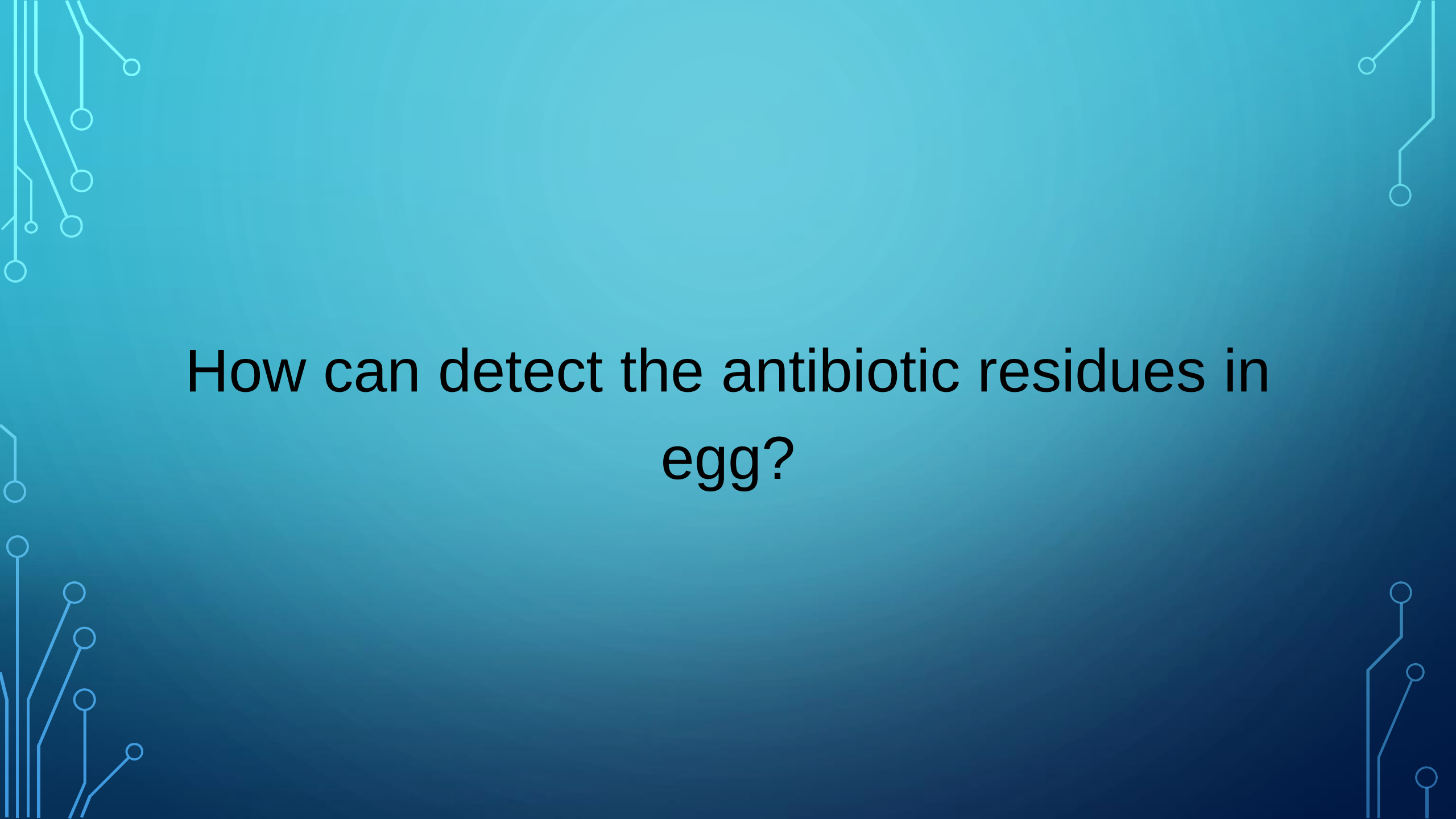
The background is a blue gradient. In the corners, there are white line-art illustrations of circuit boards or neural networks, with lines connecting to small circles.

What is the impact of antibiotic residues
found in egg on human health?



Antibiotic residues can cause:

- An allergic reaction
 - Imbalance of intestinal microbiota
 - Development of resistance bacteria against antibiotics
- 
- 

The background is a blue gradient. In the corners, there are white line-art illustrations of circuit boards or neural networks, with lines and small circles representing components.

How can detect the antibiotic residues in
egg?



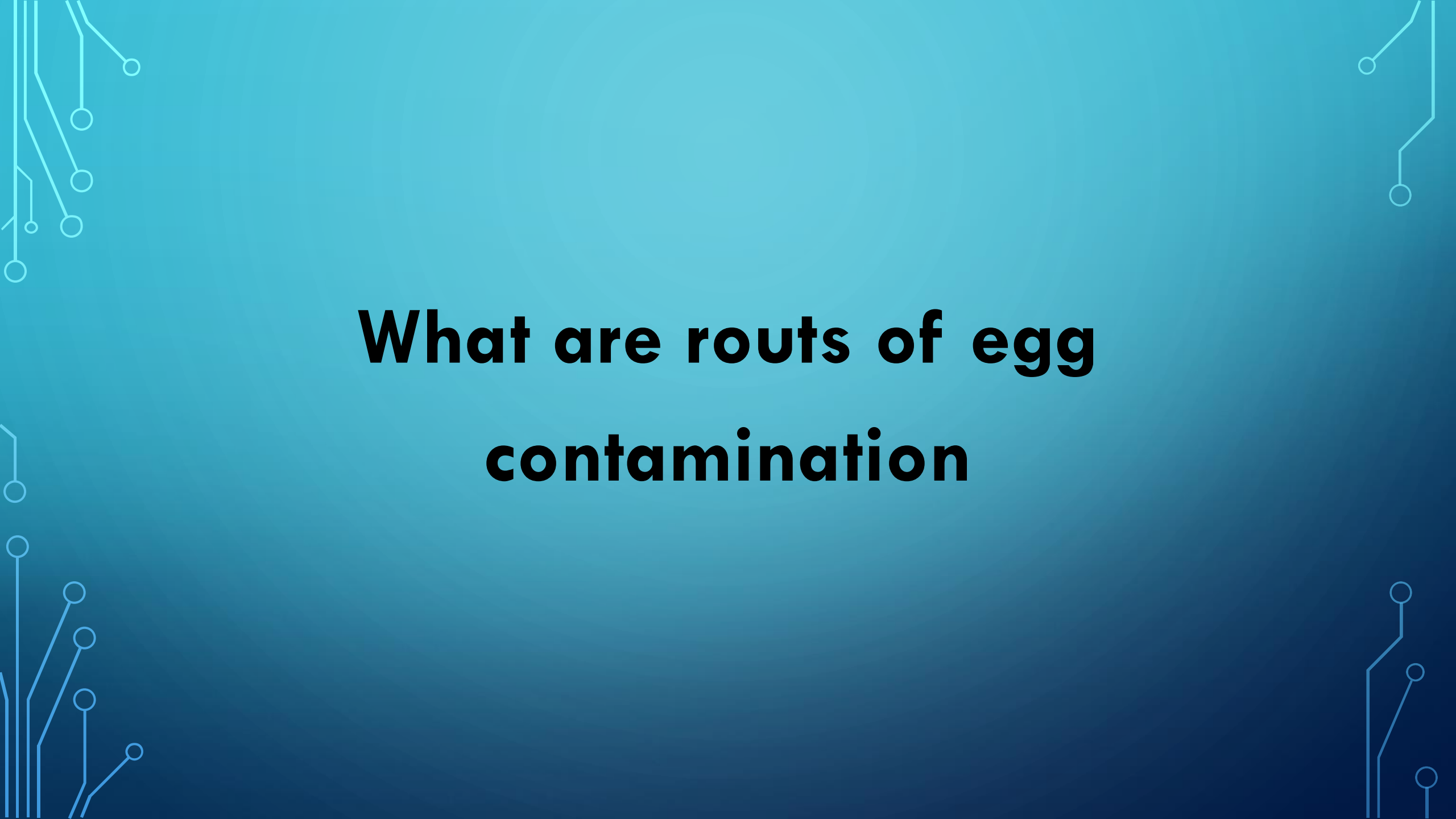
Ringbio

Egg Rapid Test Kit

to detect antibiotic & pesticide
residues in eggs



info@ringbio.com

The background is a blue gradient with decorative white circuit-like lines in the corners. These lines consist of straight segments and small circles, resembling a stylized electronic circuit or network diagram.

What are routs of egg contamination

- Vertical transmission

The yolk and albumen eggs come into direct contact with the bacterial agent through the ovaries or lower regions of the oviduct and the vagina

- Horizontal transmission

In the horizontal transmission, transmission takes place through broken egg due to the interaction with dust, feces and soil from caging material and transportation

