Źródło zdrowia zwierząt

ALL IN BioPoint Technology

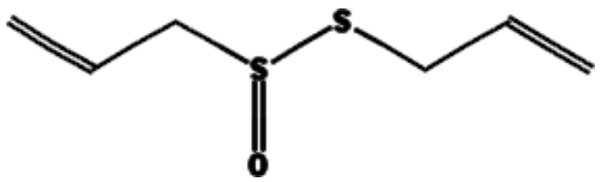
Biotix S

Product book 2019

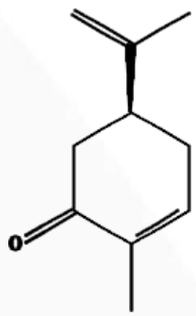
Biotix S – active substances

The garlic concentrate contained in BIOTIX S includes a number of different sulphuric phytoncides obtained from raw plant

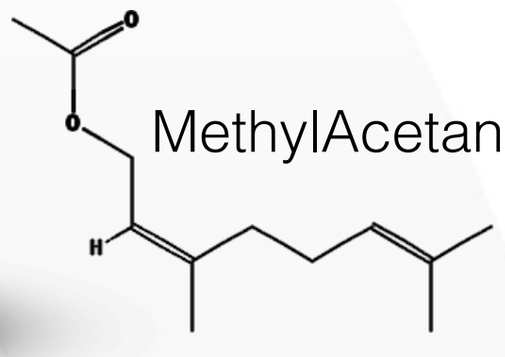
Allicin



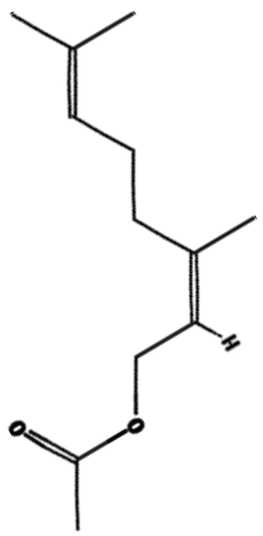
D-Karwon

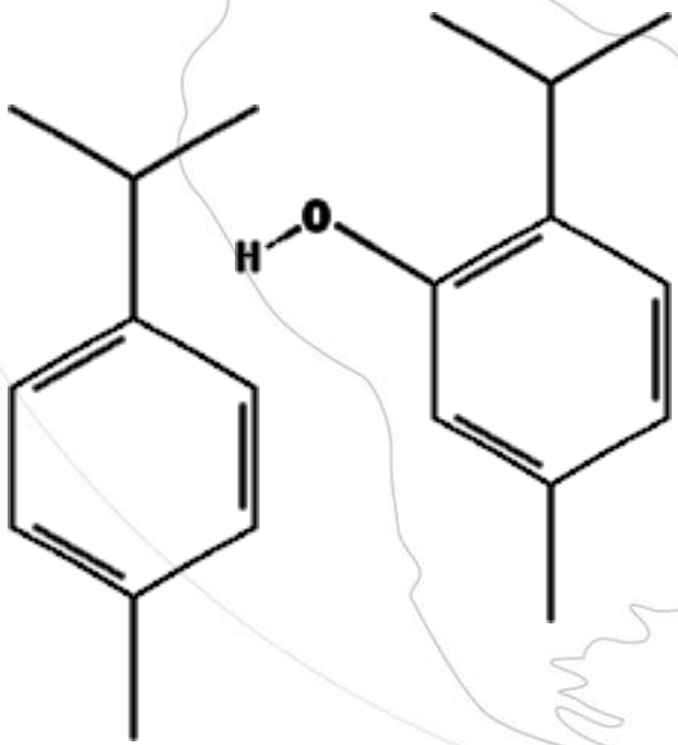


MethylAcetan



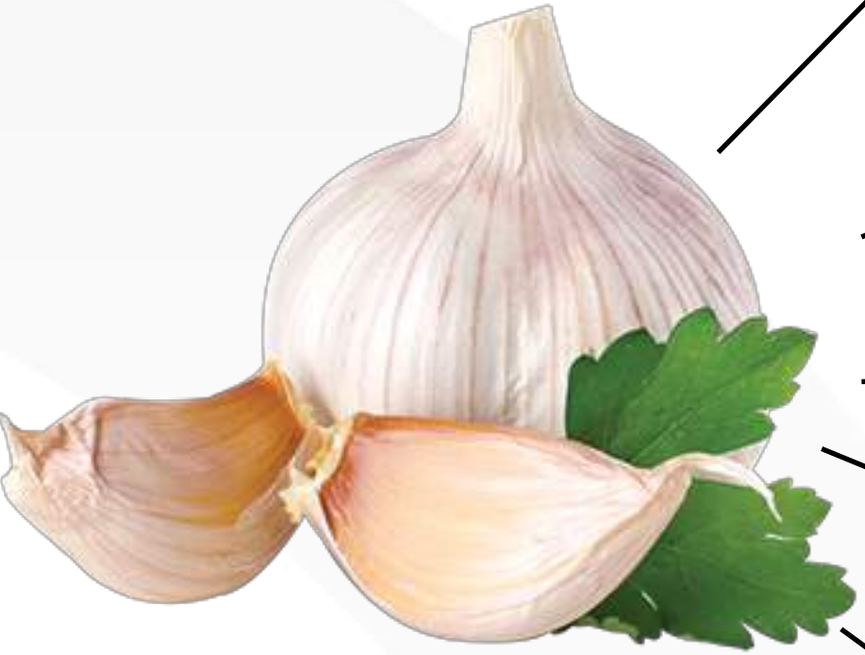
Sulphur derivatives



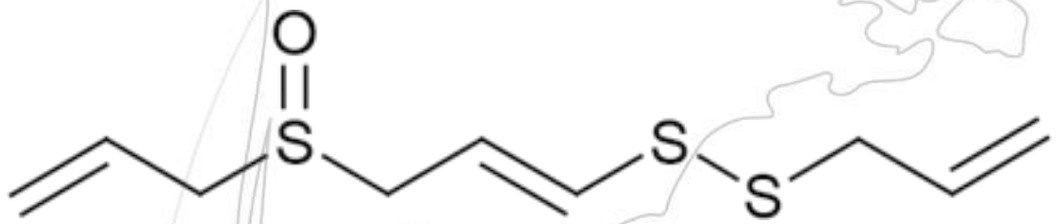


Garlic - active compounds

Extraction proces

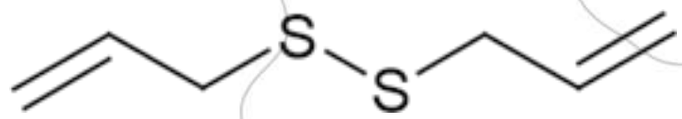


Ajoen

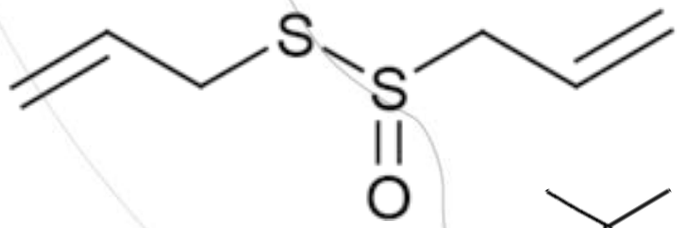


Trisulfides

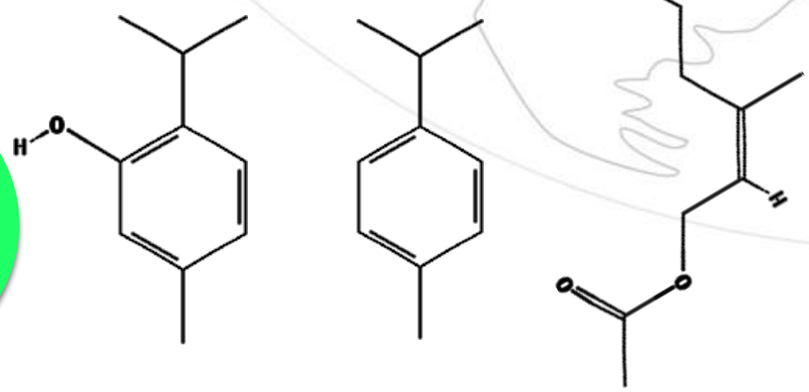
Disulfides



Allicin



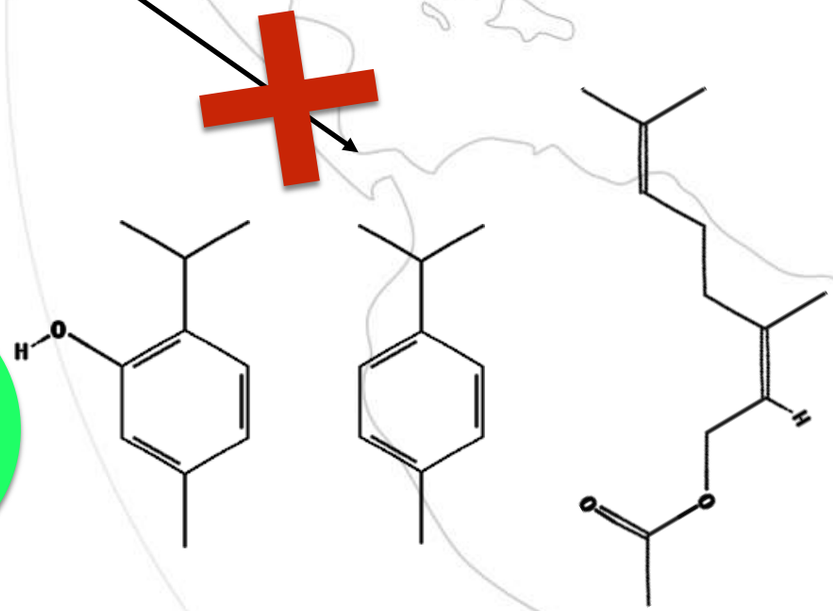
Sulphur derivatives



BIOTIX S - active compounds

Sulphuric phytoncides

Extraction



Sulphur derivatives

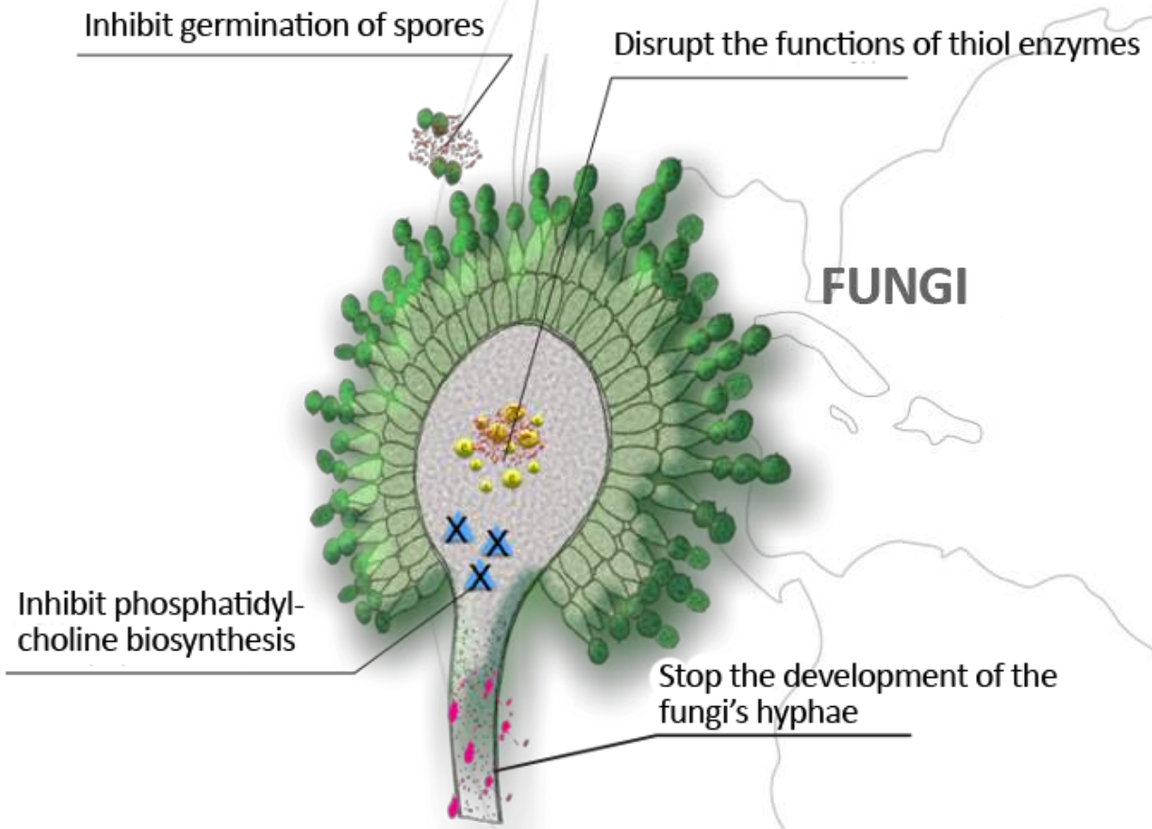
\+

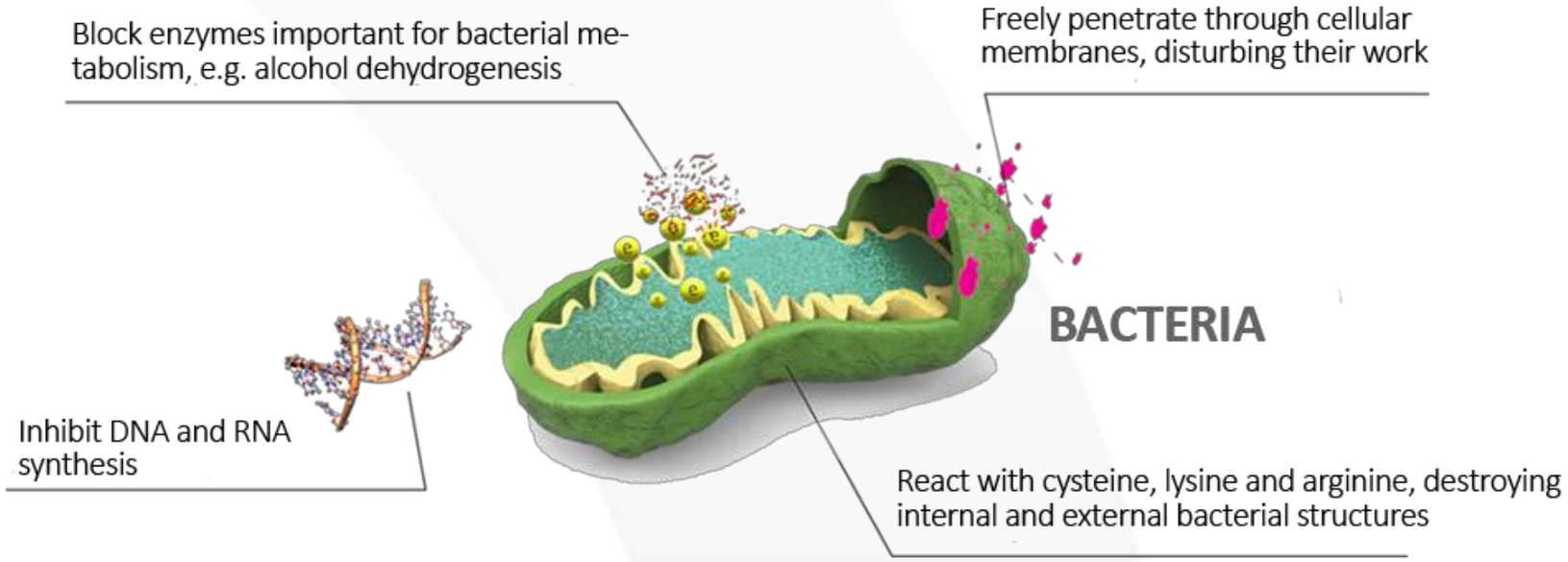
Stabilators

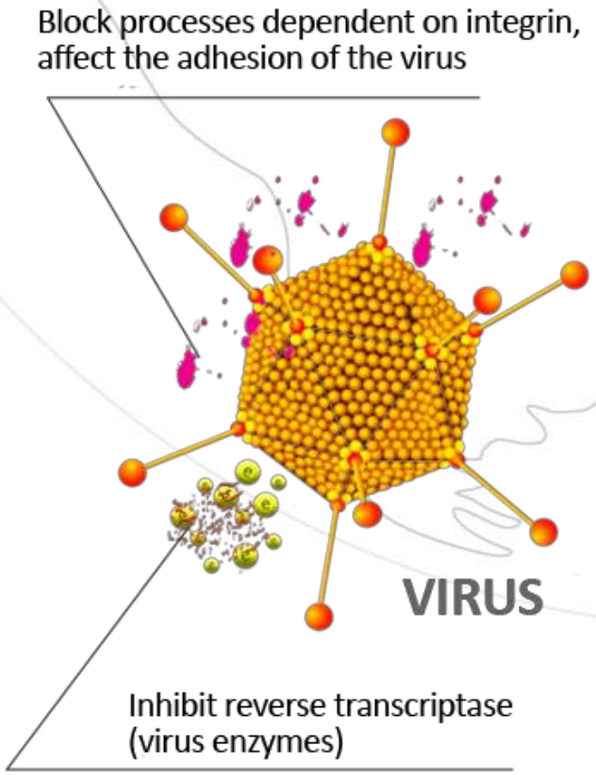
PHYTONCIDES - MECHANISM OF ACTION

BIO POINT
Źródło zdrowia zwierząt
ALL IN BioPoint Technology

PHYTONCIDES **INHIBIT THE GROWTH OF BACTERIA, FUNGI AND VIRUSES** ON MANY LEVELS





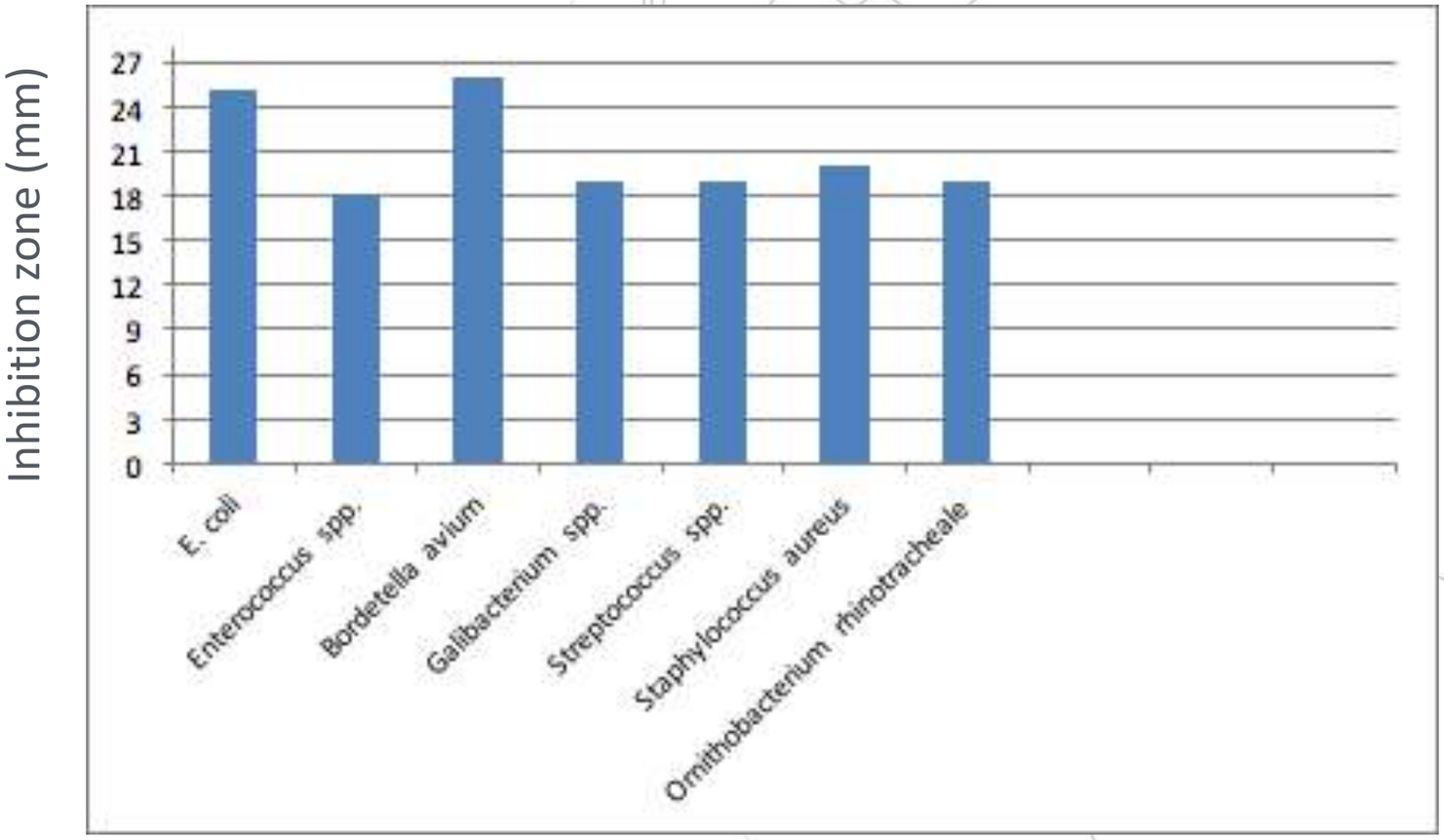


MIC – Minimum inhibitory concentration

- P. fluorescens (200 µg/mL)
- S. aureus (200 µg/mL)
- B. subtilis (200 µg/mL)
- C. albicans (7 µg/mL)
- Streptococcus spp. (200 ug/ml)
- E.coli (1,72 ug/ml)

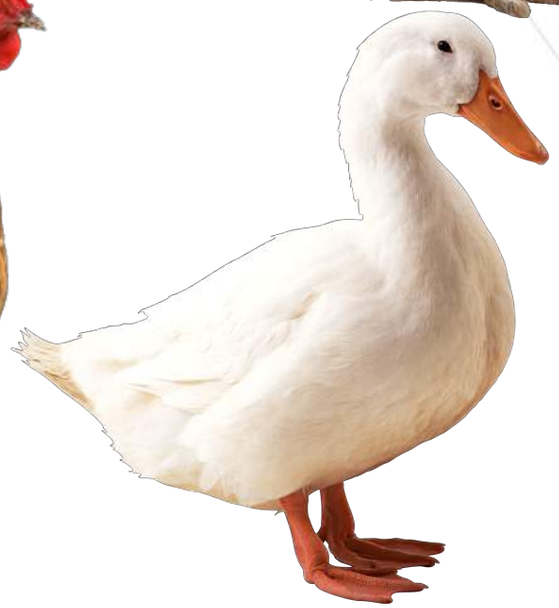
Laboratory investigation

In vitro antimicrobial activity



BIOTIX S – clinical particulars

Target species



BIOTIX S – clinical particulars

Mode of administration and dose rate

Oral administration through the drinking water

Biotix S 250 – 500 ml / 1000 of drinking water / 12-24 hours daily / 5 days

BIOTIX S – clinical particulars

Indication for use

When should I use Biotix S?

- **Disease prevention**
  From day old chicks
- **During viral infection**
  Immediate when first signs are noted
- **Multiinfection caused by viruses and bacterias**
  2nd - 5th week of birds life
- **In case of resistant bacterial infection**
- **Subclinical coccidiosis**
  18th – 32nd day of birds life

BIOTIX S – clinical particulars

Special precautions for use

Handle this product with great care to avoid sun and hight temperature exposure. Store between 15 and 25°C degree.

Interaction with other medicinal products – None known
Do not use with probiotics and mineral products

<u>Incompatibilities</u>
In the absence of compatibility studies, this products must not be mixed with veterinary medicinal products

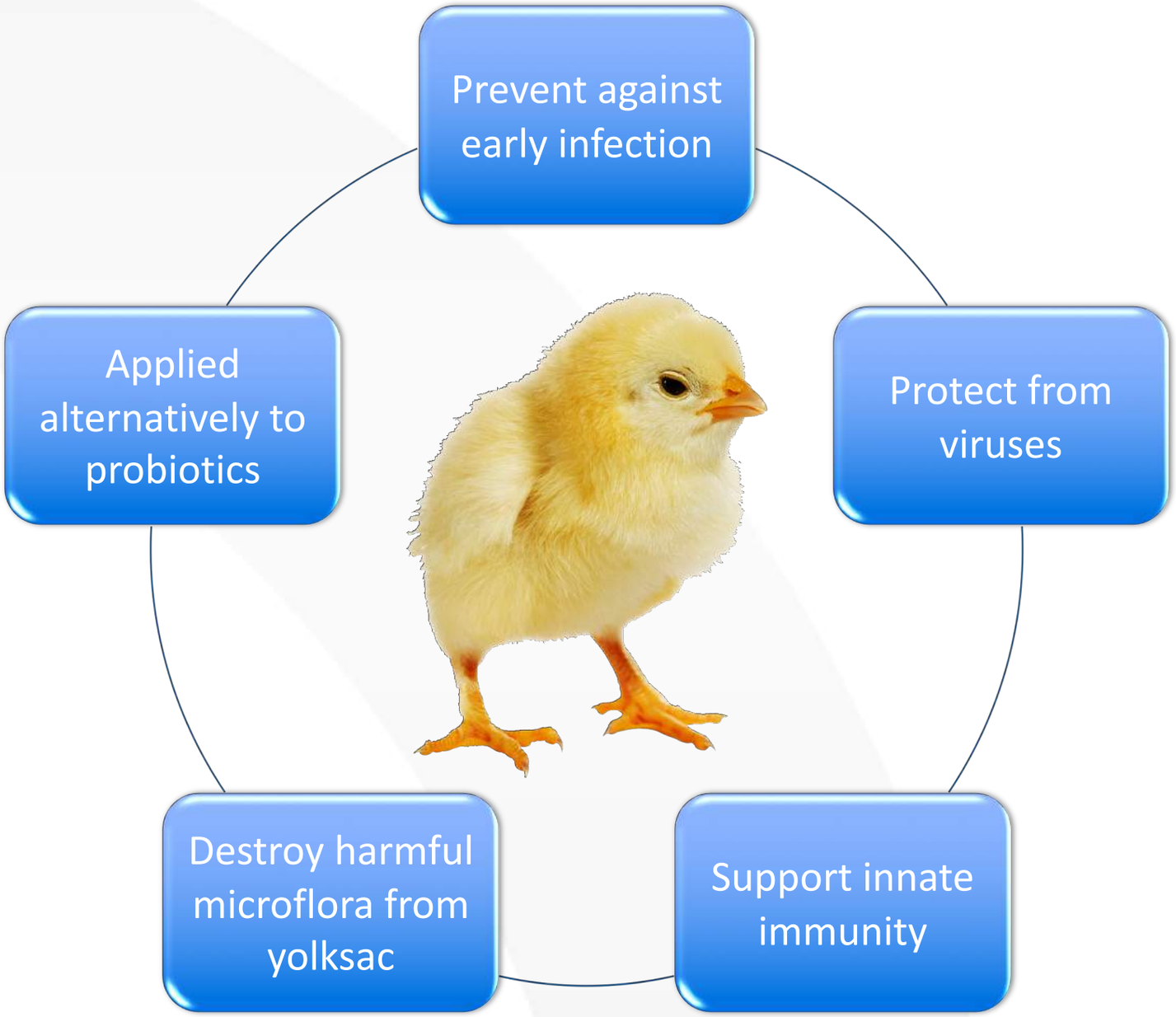
Expected farm effect: not faster than 4-5 days

BIOTIX S – farm effect

Preventive therapy
Day old chicks

BIOTIX S | DOSAGE

250ml or 500ml	1000 l drinking water	24 hours 12 hours*	3 days



*** If applied alternatively with Biostarter liquid or Enterocid**

BIOTIX S – farm effect

Preventive therapy
2nd / 3rd week

BIOTIX S | DOSAGE

500ml	1000 l drinking water	12 hours	3 days

Prevent against coccidiosis

Improve aquired immunity

Protect from IB outbreak

Support flock in case of Clostridium hazard

None contraindication to use in time of flock vaccination

BIOTIX S – farm effect

Mycoplasma infection
Clinical observation

Swollen infraorbital sinuses

BIOTIX S – farm effect

Mycoplasma infection
Clinical observation

Swollen foot joints

BIOTIX S – farm effect

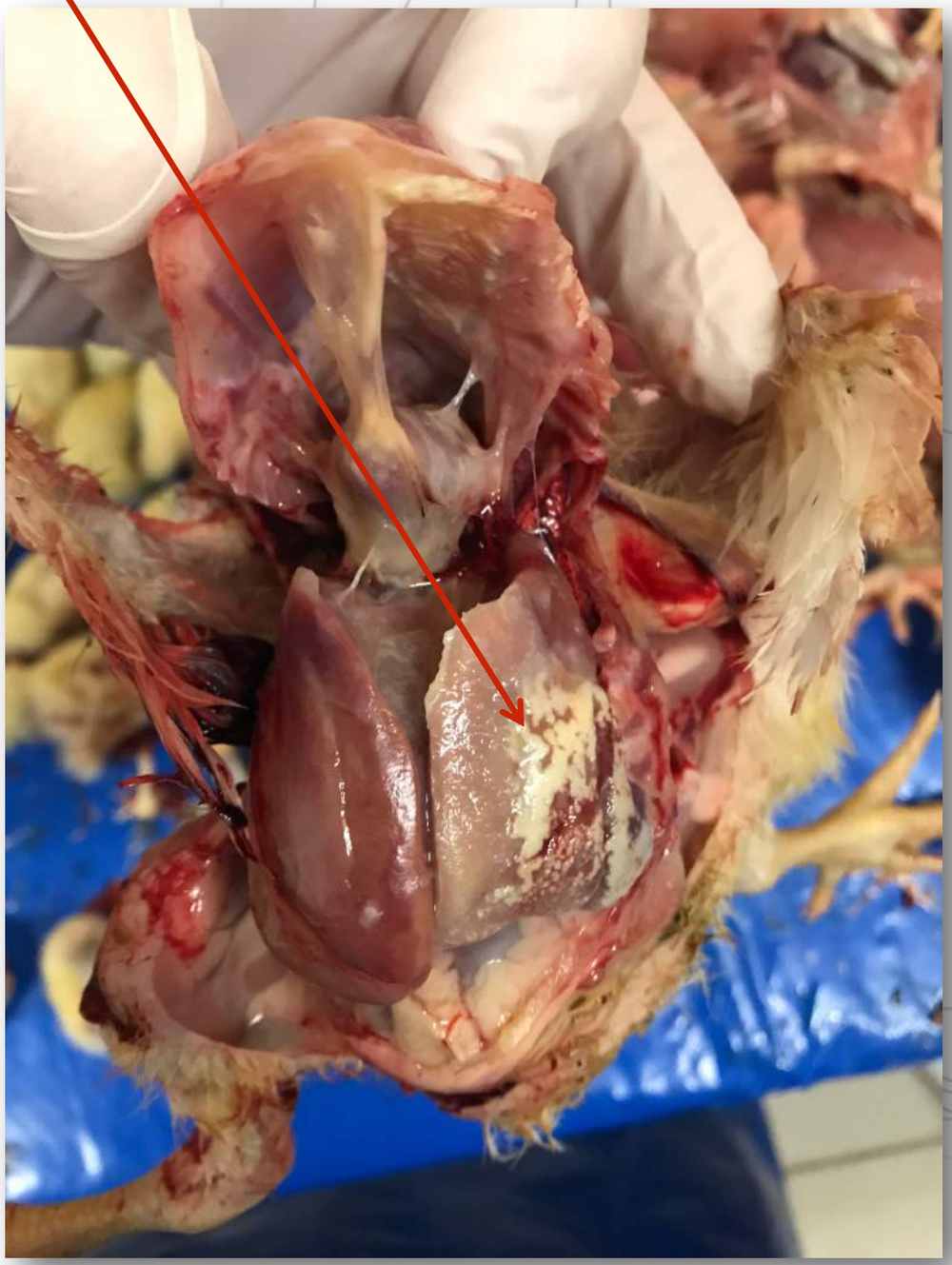
Mycoplasma infection
Necropsy findings

Caseous exudate fills sinuses

BIOTIX S – farm effect

Mycoplasma infection
Necropsy findings

Fibrinous perihepatitis, pericarditis



BIOTIX S – farm effect

Mycoplasma infection
Necropsy findings

Caseous exudate around tendon sheaths

BIOTIX S – farm effect

Mycoplasma infection
Treatment

1 – 2 Day	**Biotix S 1000 ml / 1000 of drinking water / 12 hours daily** **Mintamix 250 ml / 1000 of drinking water / 12 hours daily**
3 – 5 Day	**Biotix S 500 ml / 1000 of drinking water / 12 hours daily** **Mintamix 250 ml / 1000 of drinking water / 12 hours daily**
6 – 7 Day	**Biotix S 250 ml / 1000 of drinking water / 12 hours daily** **Mintamix 250 ml / 1000 of drinking water / 12 hours daily**

BIOTIX S – farm effect

Subclinical Coccidiosis – Eimeria acervulina / tenella

Clinical observation

- Depression
- Ruffled feathers
- No increasing mortality
- Worsening uniformity

* Prodromal sings were detected only at barn 1

BIOTIX S – farm effect

Subclinical Coccidiosis – Eimeria acervulina / tenella
Clinical observation

- Undigested feed contents
- Wetter dropping seen onto the litter
- Bloody feaces

* Prodromal sings were detected only at barn 1

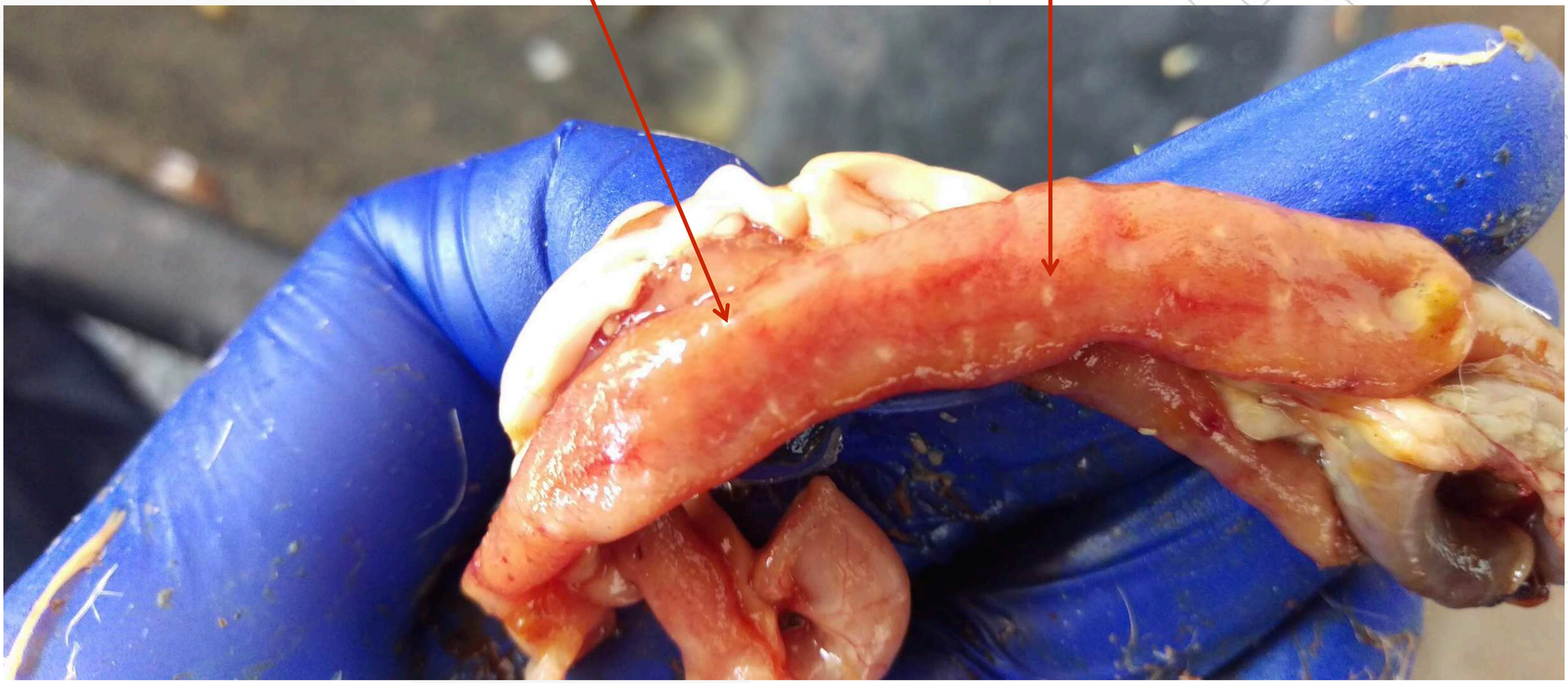
BIOTIX S – farm effect

Subclinical Coccidiosis – Eimeria acervulina / tenella

Necropsy findings

Thickened intestinal wall

Whitish round lesions



BIOTIX S – farm effect

Subclinical Coccidiosis – Eimeria acervulina / tenella

Necropsy findings

Cecal pounch greatly enlarged and distended with clotted blood*

* Several birds showed severe post-mortal signs

BIOTIX S – farm effect

Subclinical Coccidiosis – Eimeria acervulina / tenella
Laboratory investigation - OPG

Before BIOTIX S application

Barn 1 - Test
84 000 oocyst / 1g

Barn 2 - Control
24 000 oocyst / 1g

When collecting fecal samples in the barn, it is important to obtain a sample that is representative of the full barn environment.

BIOTIX S – farm effect

Subclinical Coccidiosis – Eimeria acervulina / tenella

Treatment

Biotix S 500 ml / 1000 of drinking water / 12 hours daily / 5 days*

After BIOTIX S application

Barn 1 - Test
3 400 oocyst / 1g

Barn 2 - Control
17 800 oocyst / 1g

Droppings become more solid. No evidence of undigested feed

* Acute Coccidiosis should be treated with Coccilin V Plus

BIOTIX S – farm effect

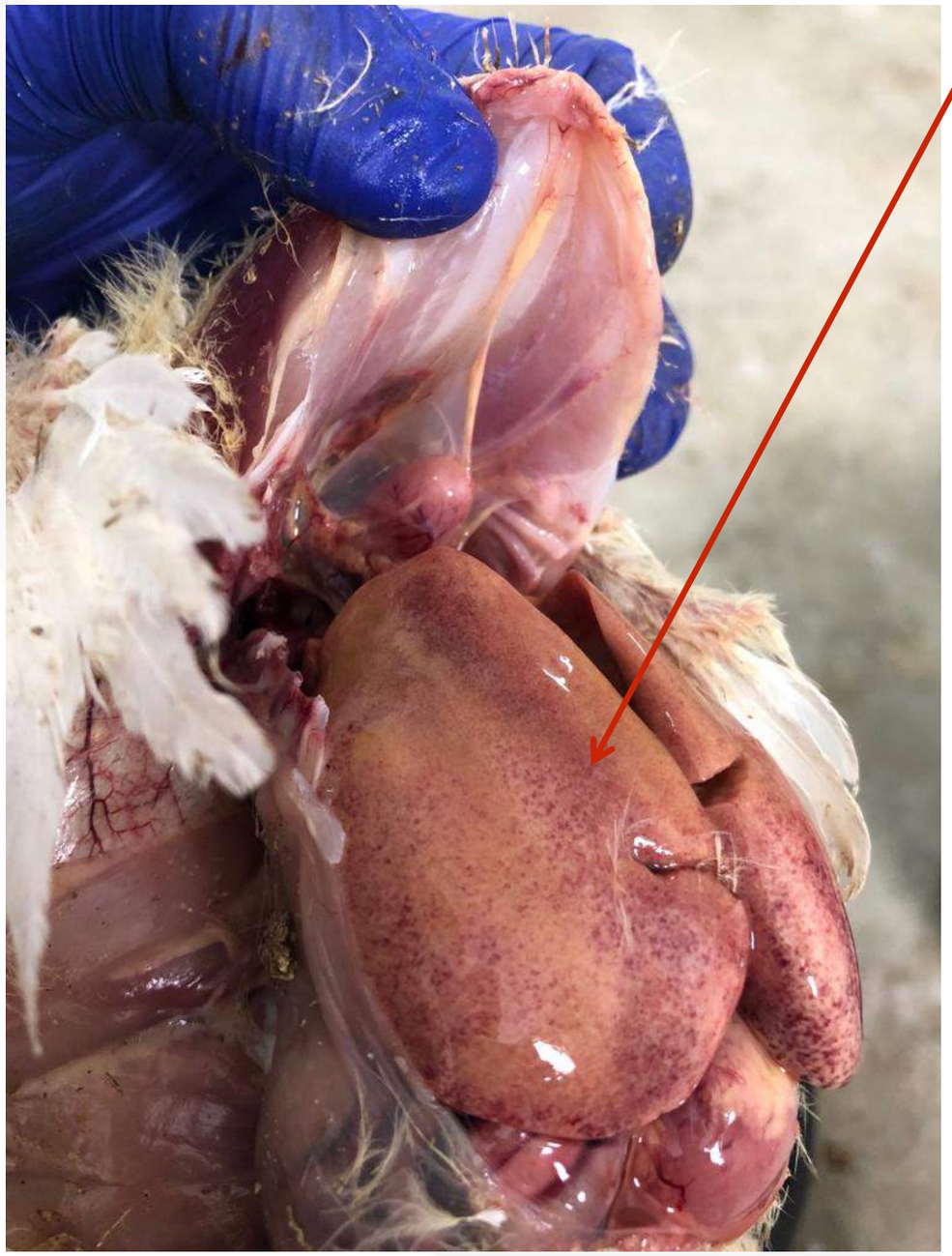
Viral infection – Inclusion body hepatitis
Clinical observation

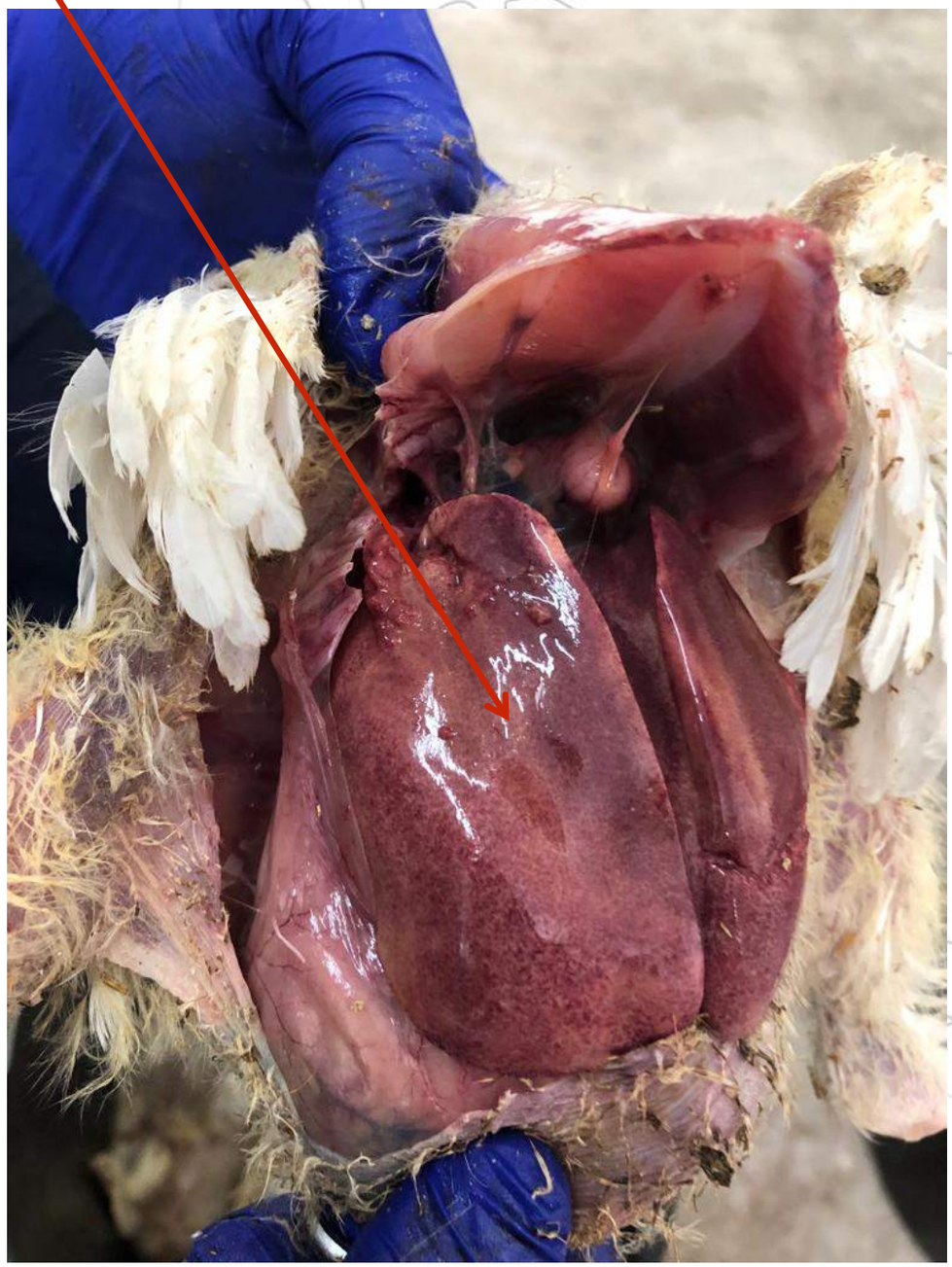
- Sudden onset of mortality
- Sick birds adopt a crouching position
- Daily weight gain drops rapidly
- Flock become deppresed

BIOTIX S – farm effect

Viral infection – Inclusion body hepatitis
Necropsy findings

Petechial hemorrhages present in the liver

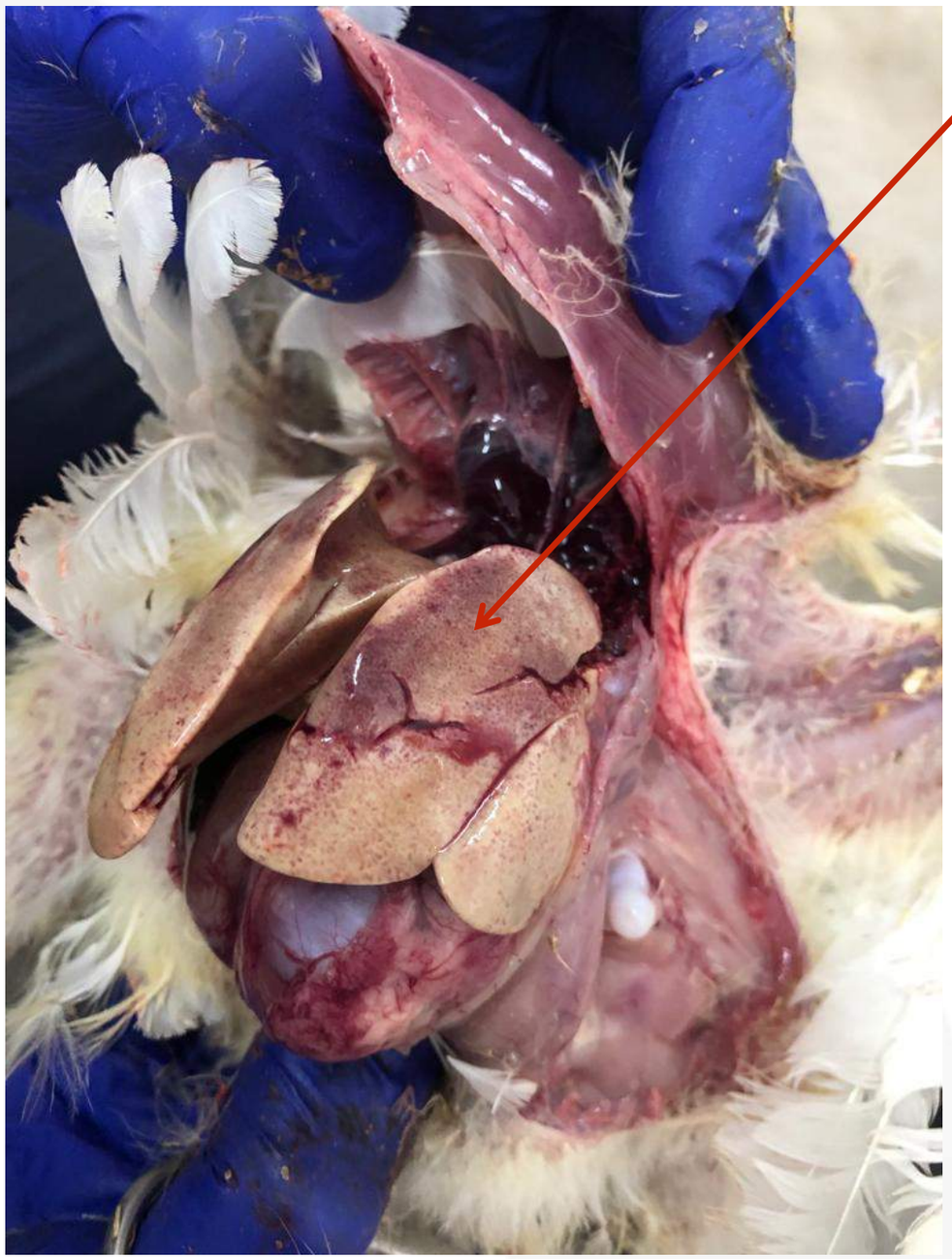




BIOTIX S – farm effect

Viral infection – Inclusion body hepatitis
Necropsy findings

Pale, friable, swollen livers



BIOTIX S – farm effect

Viral infection – Inclusion body hepatitis
Treatment

Biotix S 500 ml / 1000 of drinking water / 12 hours daily / 5 days

Hepamix 500 ml / 1000 of drinking water / 12 hours daily / 5 days

No more acute liver lesion observed

Daily mortality become standard

Daily weight gain set as regular

No bacterial coinfection were noted

BIOTIX S – farm effect

IBD outbreak – Chicken broiler
Clinical observation

Depression, watery diarrhoea, soiled vents,
anorexia, ruffled feathers

BIOTIX S – farm effect

IBD outbreak – Chicken broiler
Necropsy findings

Dehydrated carcass, petechial haemorrhages in the leg and thigh muscles

Secondary bacterial coinfection

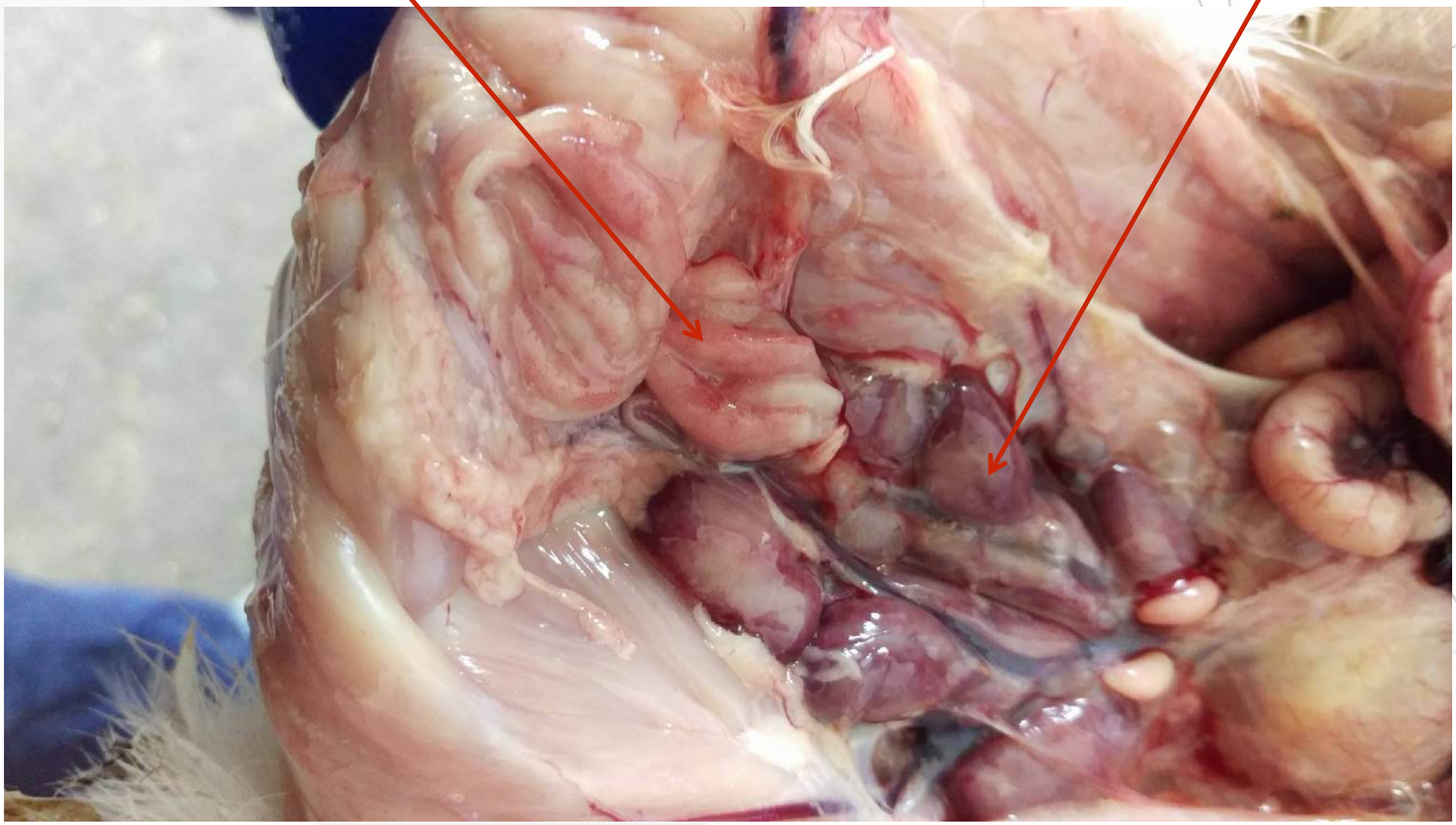
BIOTIX S – farm effect

IBD outbreak – Chicken broiler

Necropsy findings

Inflammation in the bursa of Fabricius

Kidneys appear swollen and contain urate deposits and cell debris



BIOTIX S – farm effect

IBD outbreak – Chicken broiler

Treatment