

DO YOU HAVE CRYPTOSPORIDIUM
OCCURRING IN YOUR HERD?

Crypt-Occur[®]



 **StowAg**
Keeping the countryside working



Call **Stow Ag**: 01451 830400 | Call **John Seabrook**: 07717 574221
www.stowag.com

Crypt-Occur[®]

CRYPTOSPORIDIUM

Cryptosporidiosis, (Crypto) is a disease caused by Cryptosporidium parvum (C. parvum), the size of a red blood cell. The calf swallows the crypto, it is found in cow manure. Manure on the cow's teats or from the environment provides the source. The crypto organism burrows into the wall of the calf's gut and incubates for approximately 48 hours, and then it erupts into the lumen of the gut. Half of the organisms are released to contaminate the environment, whilst the other half dive into the lining of the gut and start incubating again. If the calf eats one crypto organism on day one, it becomes more than one million by day eight. Crypto is auto-infective; once it is in the calf's body, it does not have to pass out of the calf in order to reinfect it.

Regular symptoms of crypto in an infected calf are diarrhoea, dehydration, loss of appetite, fever and abdominal pain. The infection will cause damage to the gut wall lining and the calf won't be able to absorb nutrients. This leads them to become lethargic, stop drinking and become dehydrated fast.

WHAT HAPPENS INSIDE THE CALF?

1. Oocysts of *Cryptosporidium* are found in cow faeces and typically ingested within hours of birth by the calf.
2. Each oocyst contains around four infective sporozoites.
3. Sporozoites leave the oocysts and attach to the lining of the gut wall.
4. Once attached to the gut wall the parasite multiplies rapidly.
5. Once multiplication has occurred the oocysts break back into the gut lumen causing considerable damage to the gut wall lining in the process, resulting in non absorption of nutrients to the calf = rapid dehydration.

1. OOCYST



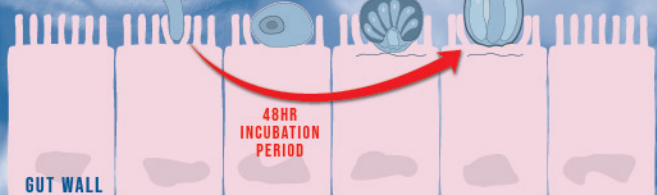
2. SPOROZITE
PRODUCTION

3. SPOROZITE HEADING
TO GUT WALL

4. ATTACHING
TO GUT WALL

5. EPITHELIAL LINING DAMAGE

INVASION / MULTIPLICATION



CLASSIC SYMPTOMS

- Lethargic Calves
- Loss of appetite
- Loose / watery stools*
* (may contain blood)
- Abdominal pain / fever

**"IT IS VERY IMPORTANT TO GET CRYPTOSPORIDIUM CORRECTLY DIAGNOSED
BY YOUR VET OR ANIMAL HEALTH ADVISOR"**

Crypt-Occur®

Once *Cryptosporidium* has been diagnosed on your farm we would recommend the use of Crypt-Occur®. In conjunction with regular disinfecting (with approved cryptosporidium disinfectant), for calves, look to use Crypt-Occur®. Crypt-Occur® is a carefully formulated, synergistic blend of ingredients designed to support the gut, immune system and intestinal microflora of calves at risk of cryptosporidiosis and other pathogens. Esterified butyrins and plant extracts enhance the barrier effect of the gut wall through their positive effects on the tight junctions and mucus production. This helps to minimise "leaky gut" and reduce the passage of pathogens and antigens into the bloodstream of the calf causing inflammation. Essential oils, plant extracts and fatty acids work together to reduce any gut inflammation, which can also be induced by the stress commonly experienced by young calves. Calves need gradual exposure to disease causing organisms and parasites such as cryptosporidium to allow the build up of immunity without the production of disease. Strengthening the immune system with egg products (dried), yeast components included in Crypt-Occur® and the use of fatty acids, butyrins and prebiotics to balance the gut microflora, Crypt-Occur® is a formidable product for use when cryptosporidiosis threatens calf health.

Crypt-Occur®

PREBIOTICS

- Improved immune system
- Improved gut health
- Increased nutrient absorption
- Reduces severity of disease

ANTI-OXIDANT PACKAGE

- Immune booster
- Reduction in attack from pathogens
- Reduction in nutritional scour
- Increase in cellular metabolism

BLENDED PLANT EXTRACTS/ ESSENTIAL OILS

- Limits proliferation of sporozoites (reduces shedding)
- Kills infective sporozoites
- Improves gut wall lining (thickening of mucus)
- Decreases asexual reproduction of cryptosporidia
- Improved DLWG

LATEST GENERATION ESTERIFIED BUTYRIC ACID

- Maintains gut barrier and transport functions
- Protective anti-inflammatory effects
- Balances gut microflora
- Increased release of anti-microbial peptides with activity against bacteria, protozoa and enveloped viruses
- Reduces "leaky gut"

HYDROLYSED YEAST

- Scientifically proven immune stimulation
- Scientifically proven to improve faecal + health score
- Develops rumen function
- Binds toxins
- Fight bacterial infections

EGG PRODUCTS (DRIED)

- Supports immune system
- Improved gut health.

***NO PRESCRIPTIONS REQUIRED**

***NO WITHDRAWAL**

***KIND ON CALF'S STOMACH**

OPTION ONE (DAYS IN AGES): Day 1 to 4: feed 2 level scoops (20g) per calf once per day.

Day 5 up to day 14: feed 1 level scoop (20g) per calf once per day.

OPTION TWO (DAYS IN AGES): Day 1 up to day 14: feed 1 level scoop (20g) per calf once per day.

Both options can be started from day 1, i.e. mixed in with colostrum if required and both options to be mixed in with milk powder or whole milk thereafter.



A 4kg bucket = 200 feeds

TESTIMONIALS

"I have been using Crypt-Occur for six months and it is now an established feature of our calf health management programme. I highly recommend it to anyone with cryptosporidium in their calves"

ANDREW JACKSON, GUILLYHILL FARM, HOLYWOOD, DUMFRIES

"We have had problems with crypto for years but never found anything that worked. However after using Crypt-Occur for well over 2 years now, I wouldn't hesitate to recommend it. Scours are no longer an issue and the calves are growing on really well. The calves responded very quickly to the product."

ANDREW NICHOLLS, TREWINDLE FARM, LOSTWITHIEL, CORNWALL

"I have been using Crypt-Occur for the past 2 years to help tackle my crypto problem in my calves. I use it as a preventative on calves from 3 to 10 days old and treat at full rate if I ever get the odd case. I have tried many other products over the years to solve this problem but they have all failed to give me the same results as I get with Crypt-Occur. It really does work."

GETHIN EVANS, CEFNMABWS, LLANRHYSTUD, WALES

"Since using Crypt-Occur, we have seen an improvement in calf health and its a lot easier to use than the alternatives."

J & E AIREY, BLACKMOSS FARM, PRESTON, LANCASHIRE

"I have been using Crypt-Occur for 18 months to tackle crypto in my calves. I use it as a preventative on calves from 3 to 10 days old and treat at full rate. This has enabled us to carry on our high health status in our herd. We lose less calves through crypto which means we can now select the healthiest calves through genomics. Crypt-Occur is a must for rearing the future of dairy. It really does work."

JOSIE LEWIS, MILE ELM FARM, CALNE WILTSHIRE.

ALSO
AVAILABLE

ROTA-OCCUR: A POWERFUL BLENDED PRODUCT TO AID
AGAINST ROTAVIRUS AND CORONAVIRUS