



Núcleo de Pesquisa, Ensino e Extensão em Pecuária
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Utilização metafilática de Butafosfan + Cianocobalamina no pós-parto de ovelhas.

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Doutorando em Veterinária

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Orientador





Catosal B₁₂[®]

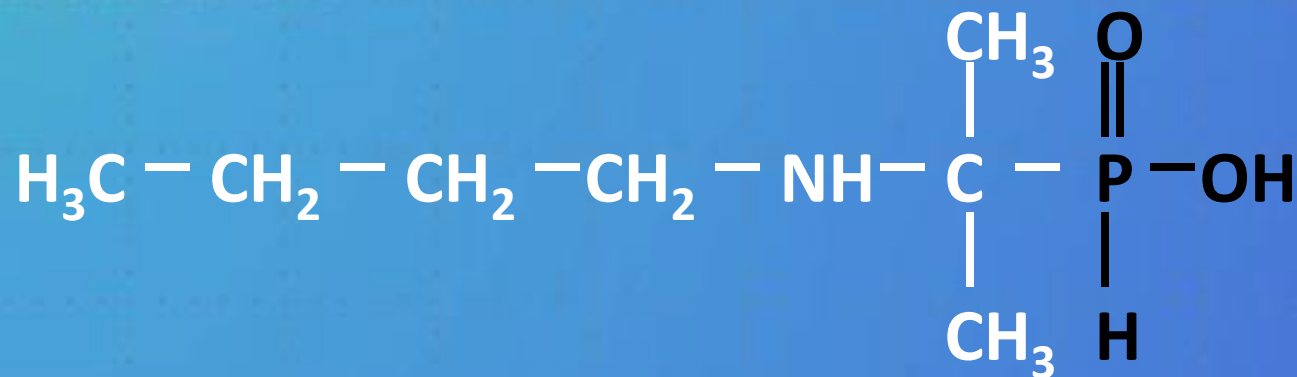


- Ácido 1-(n-butilamino)-1-metiletil-fosfônico ...10 g
- Cianocobalamina (Vitamina B₁₂)5000 µg
- Veículo q.s.p.100 mL

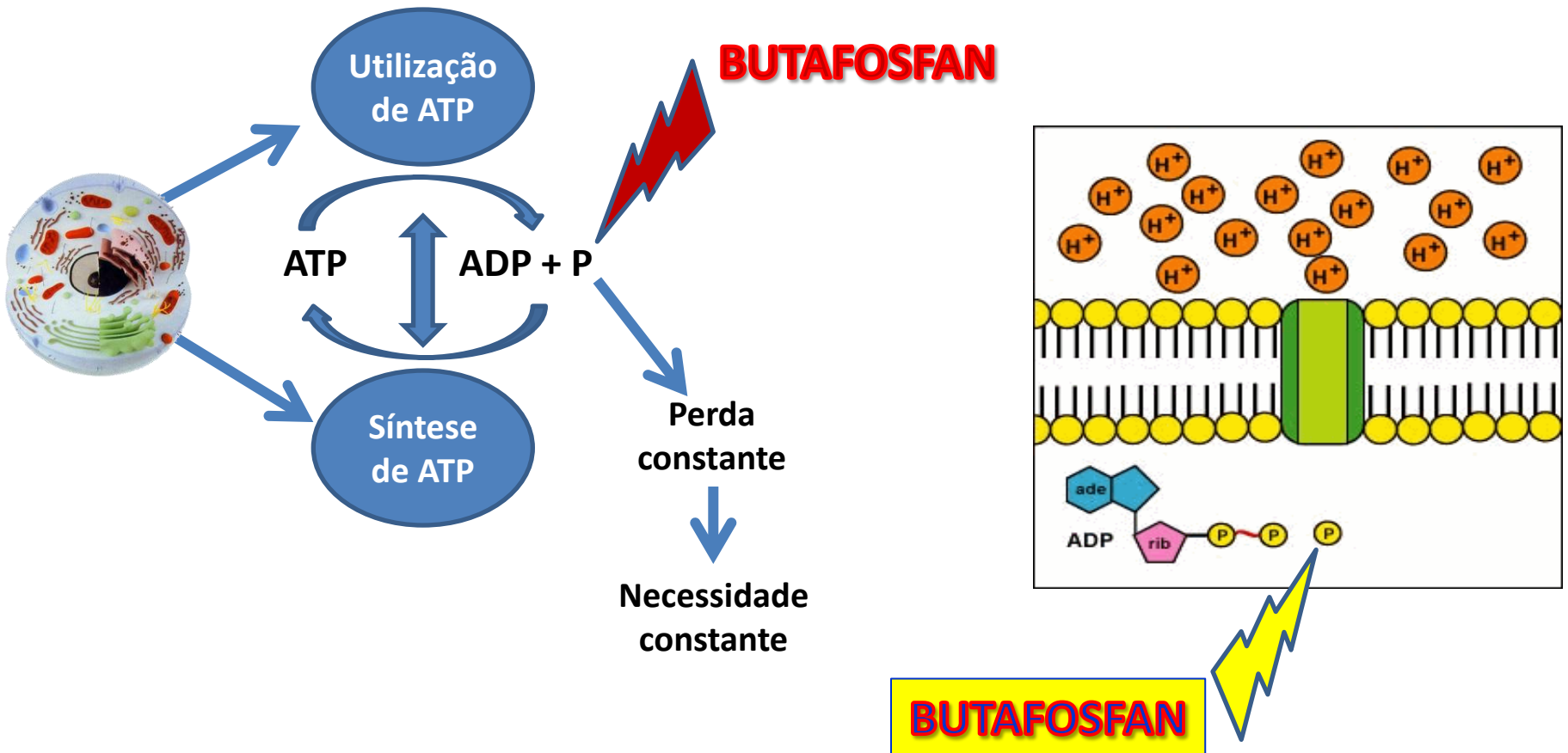


Butafosfan (1-butilamino-1-ácido etil fosfórico)

Derivado do ácido fosfórico



Atividade Celular

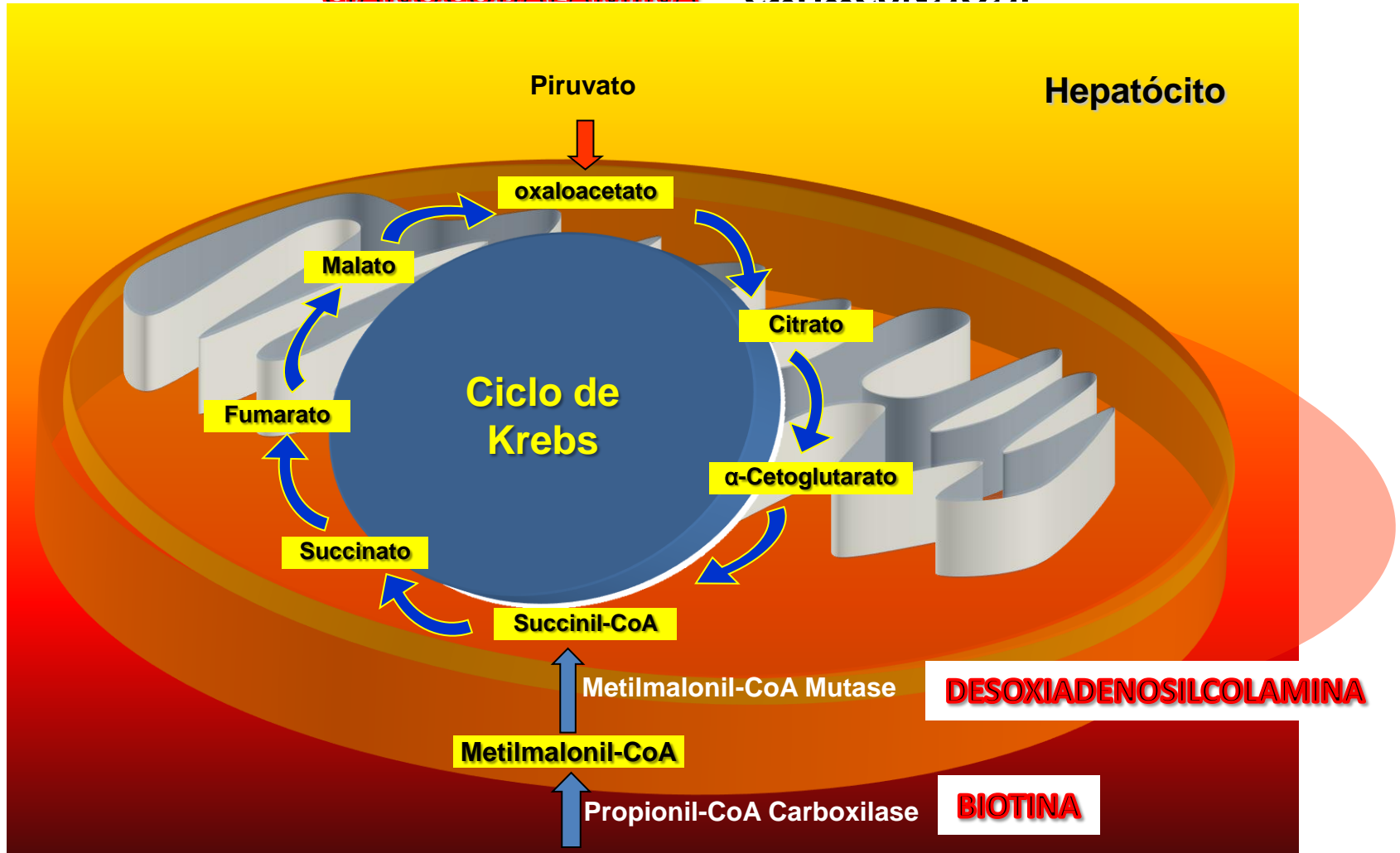


Cofatores Enzimáticos



CIANOCOBALAMINA $C_{55}H_{88}CoN_{14}O_{14}P$

SANGUE



SANGUE

Ácidos Graxos
N° ímpar

(Klee, 2000)

Algumas publicações...



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Effect of multiple intravenous injections of butaphosphan and cyanocobalamin on the metabolism of periparturient dairy cows¹

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ABSTRACT

Numerous adjunct therapeutic agents have been investigated for the treatment or control of fat mobilization syndrome in periparturient dairy cows. The aim of this study was to determine the effects of multiple i.v. injections of 10% butaphosphan and 0.005% cyanocobalamin combination (Catosal, Bayer Animal Health, Leverkusen, Germany) between 1 and 2 wk

effect on the metabolism

Our results are consi

high-producing dairy c

a relative or actual de

Key words: ketosis, l

cyanocobalamin



J. Dairy Sci. 93:978-987

doi:10.3168/jds.2009-2508

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The effect of injectable butaphosphan and cyanocobalamin on postpartum serum β -hydroxybutyrate, calcium, and phosphorus concentrations in dairy cattle

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ABSTRACT

The objective of this study was to determine the effect of an injection of 10% butaphosphan and cyanocobalamin (Catosal, Bayer, Shawnee Mission, KS) on the day of calving and 1 d later on the prevalence of subclinical ketosis in dairy cattle in the early postpartum period.

INTRODUCTION

The transition from gestation to lactation is a period of great metabolic stress for dairy cows. Homeorhetic mechanisms in early lactation partition nutrients toward the mammary gland to support lactation even at the expense of other body tissues. At the same time.

Hipótese Experimental



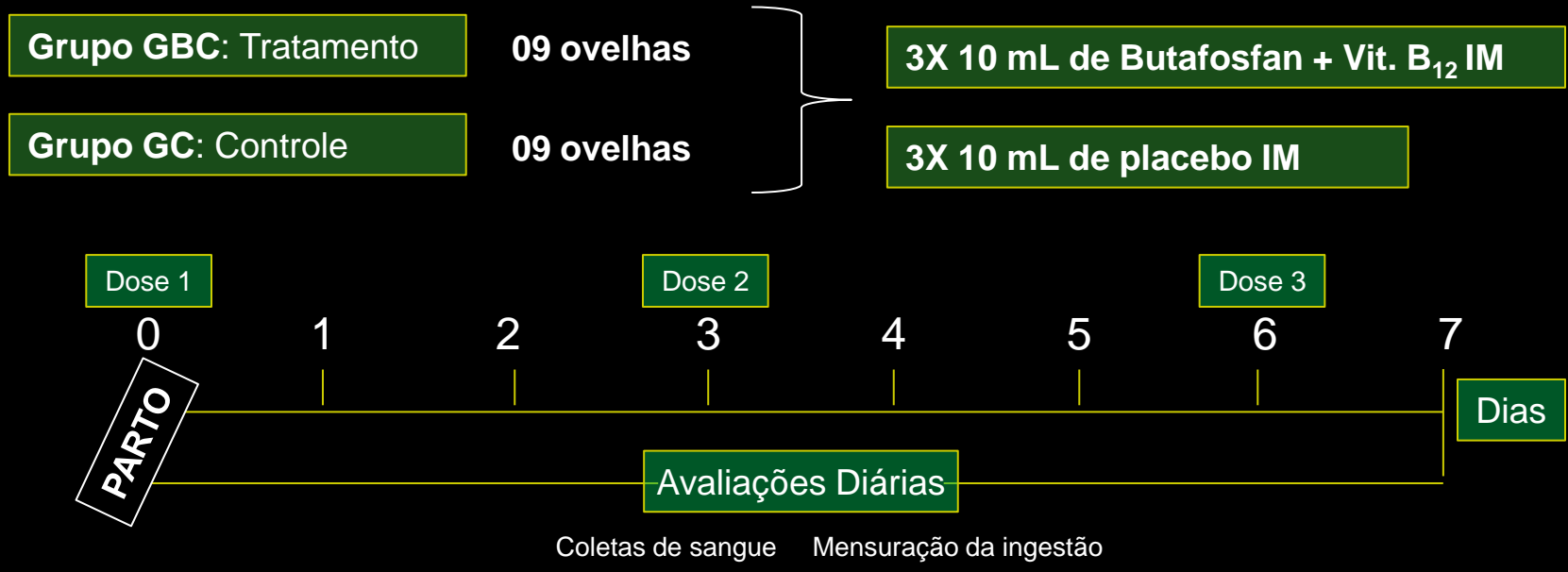
Butafosfan e Cianocobalamina melhoram o metabolismo lipídico, diminuindo a intensidade do BEN e o conseqüente risco de cetose.

Objetivos



- Avaliar a ingestão de matéria seca de ovelhas após o parto;
- Determinar a incidência de cetose subclínica no pós-parto de ovelhas alimentadas com concentrado e silagem de milho;
- Avaliar a redução da anorexia dos animais, através do doseamento de isopropanol e acetona.

Delineamento Experimental



Delineamento Experimental



Avaliações Bioquímicas

Glicose, Ca, P, BHB, NEFA
Isopropanol e acetona

Administrações de Catosal B₁₂[®]

IM pescoço

Demais Avaliações

Peso diário dos animais (do dia 0 ao dia 7)
Peso do cordeiro (do dia 0 ao dia 7)
Alimentação consumida diariamente
ECC inicial e final;
Avaliação bromatológica da silagem de milho



Demais informações



Primeiro Parto: 15/08

Último Parto: 26/09

Gestação de 150 dias

18 ovelhas prenhes

09 GBC

09 GC

Administrações

72 doses de 10 mL

Catosal B12: 10 mL
Placebo: 10 mL

126 coletas

126 amostras soro
126 amostras plasma
126 amostra de sangue c/ NaF



Alimentação



Concentrado: ração de ovinos (88% de MS)

Volumoso: silagem de milho (25% de MS)

Adaptação iniciada
em 11/08/10

Animais em baias individualizadas

Dieta: 3% do PV

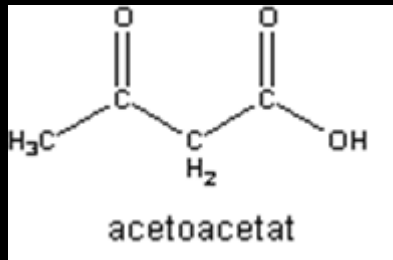
40% de Concentrado

60% de Volumoso

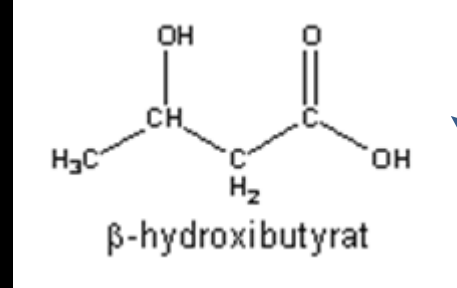
60% de manhã
e
40% a noite



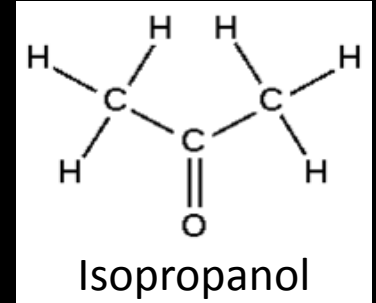
Metabolismo de corpos cetônicos



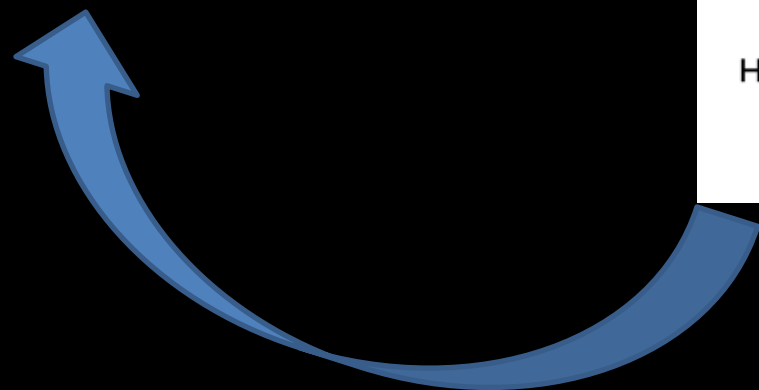
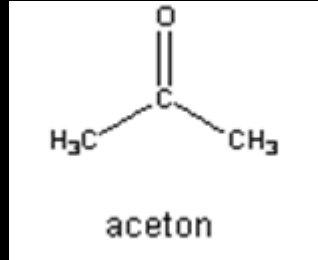
Descarboxilação



Descarboxilação

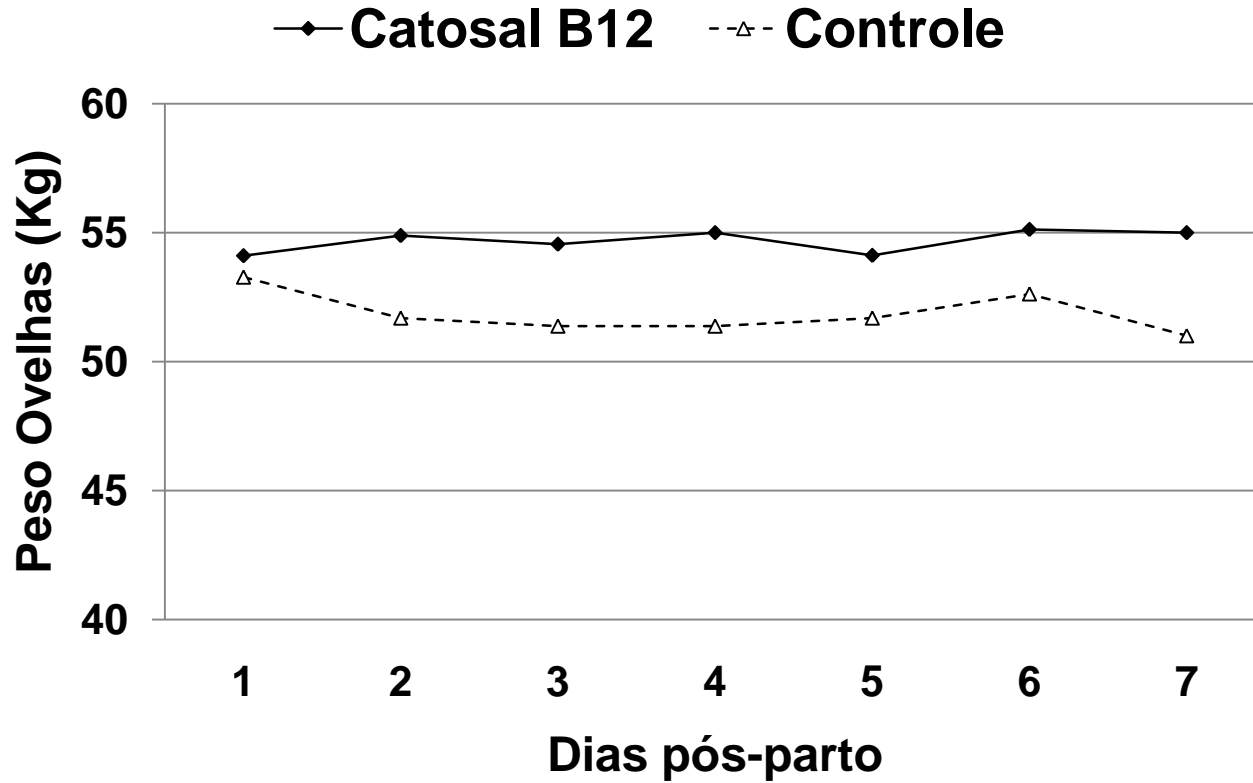


Expontânea

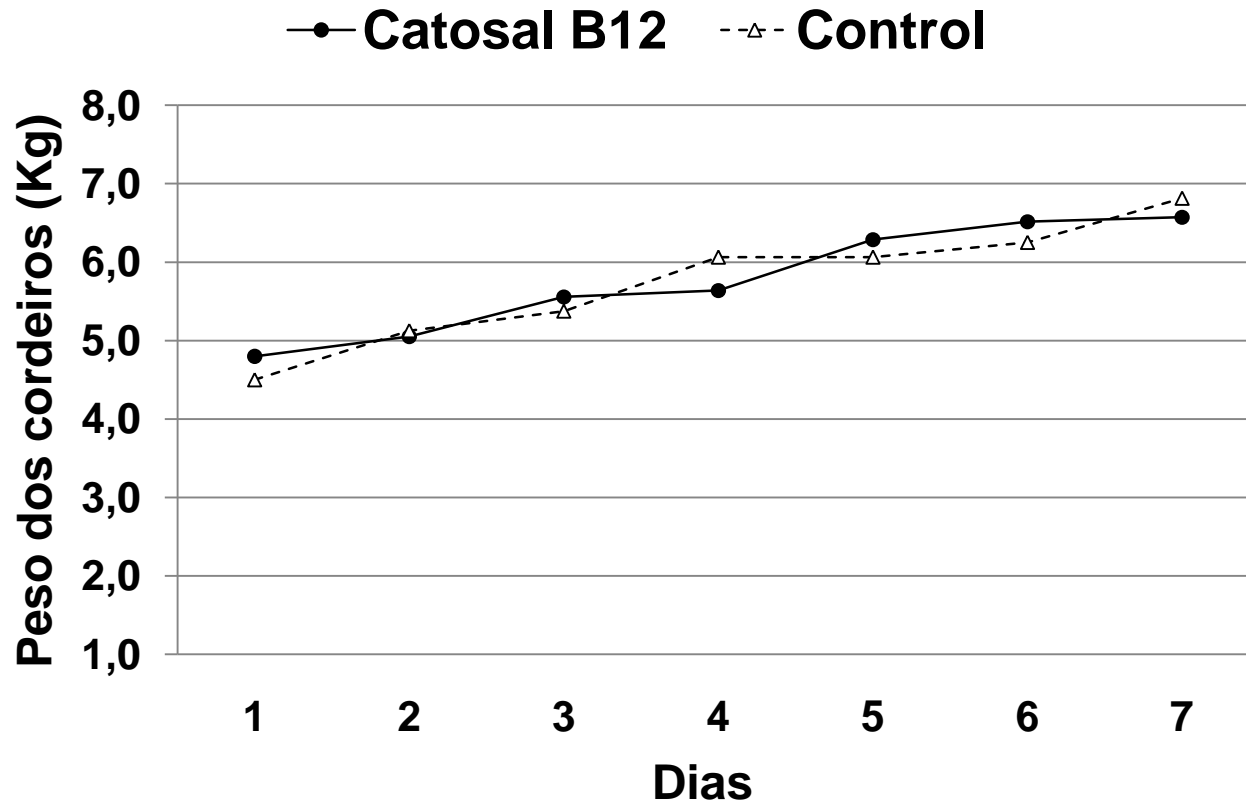


Alguns Resultados...

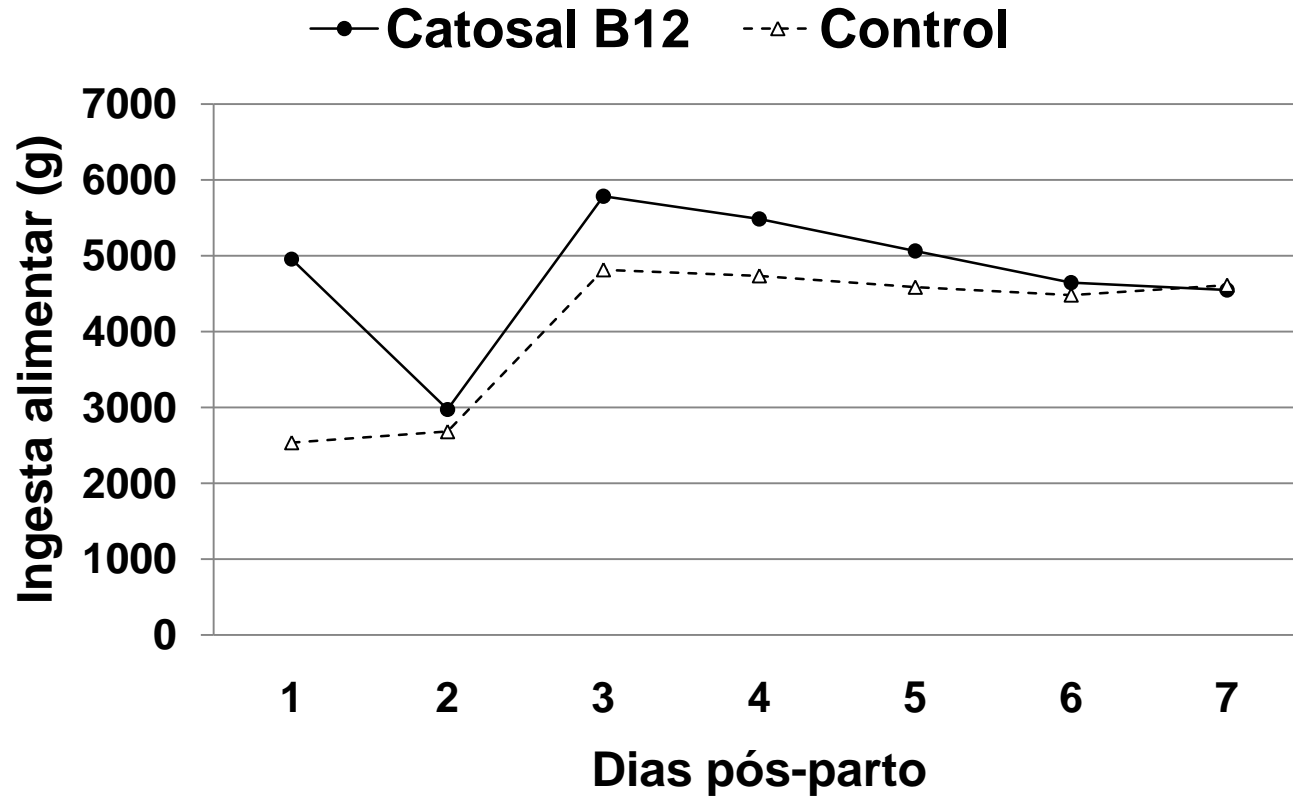
Peso das ovelhas



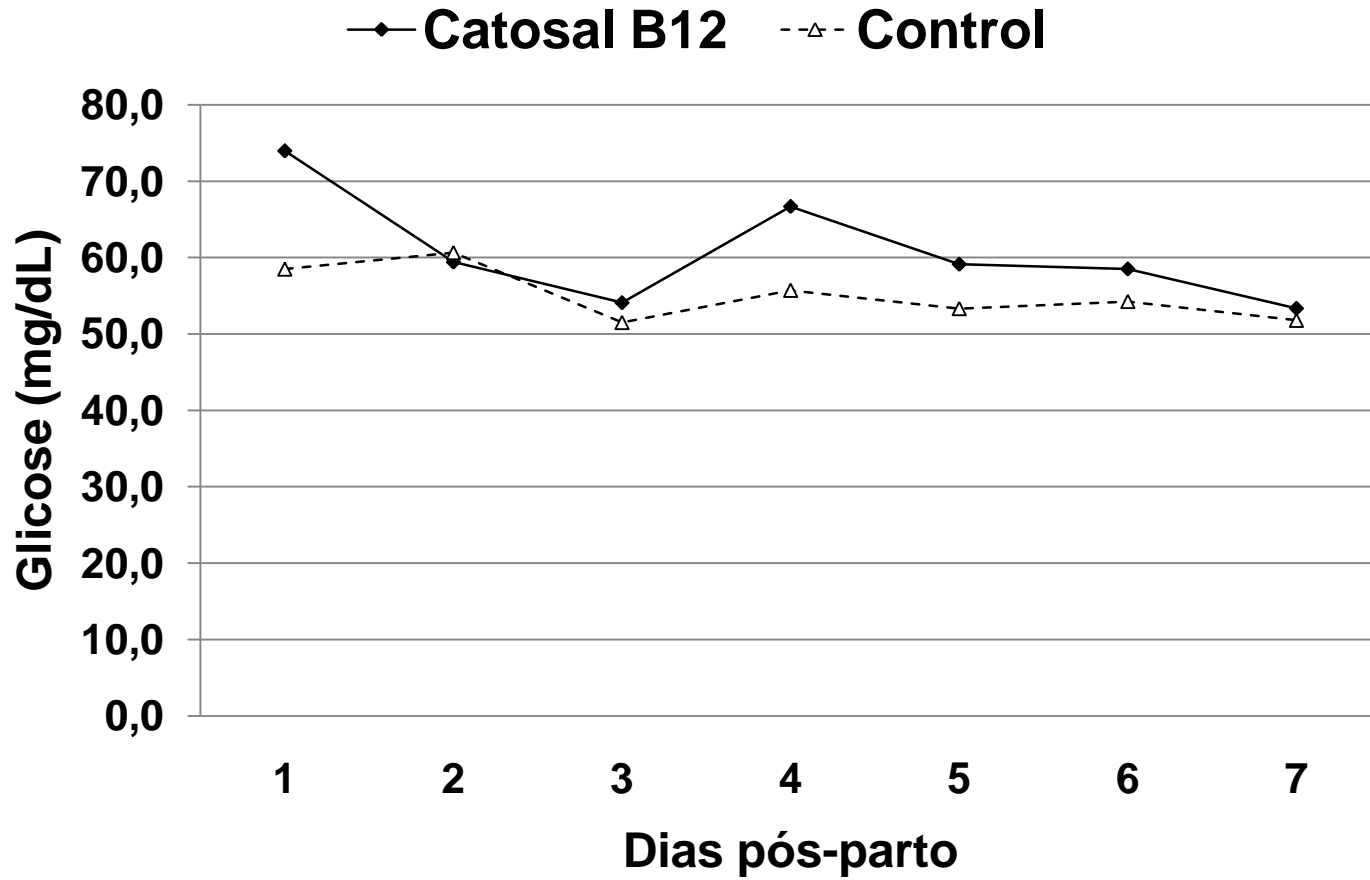
Peso dos cordeiros



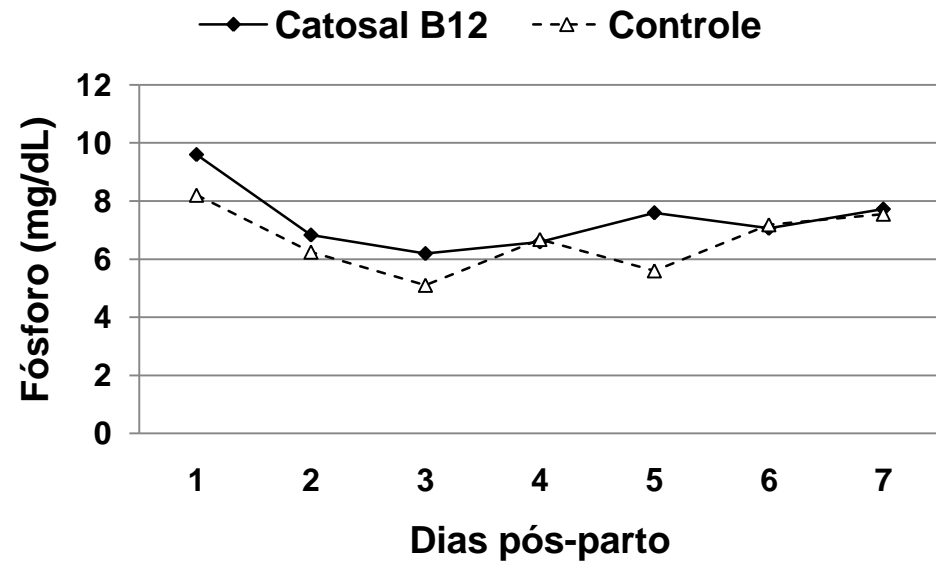
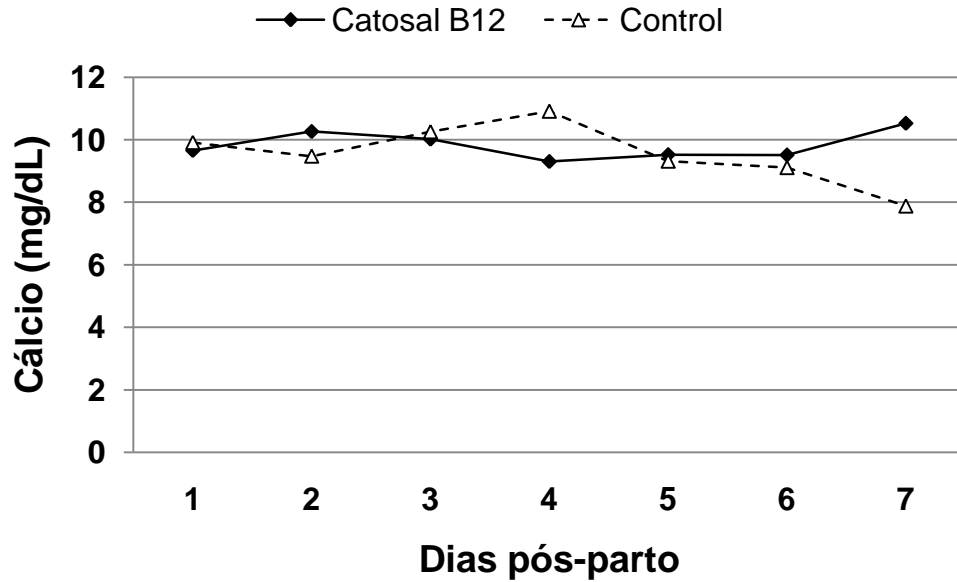
Ingesta alimentar



Glicose



Cálcio e Fósforo



Isopropanol e Acetona



Isopropanol

Limite de detecção 0,3 ng/dL

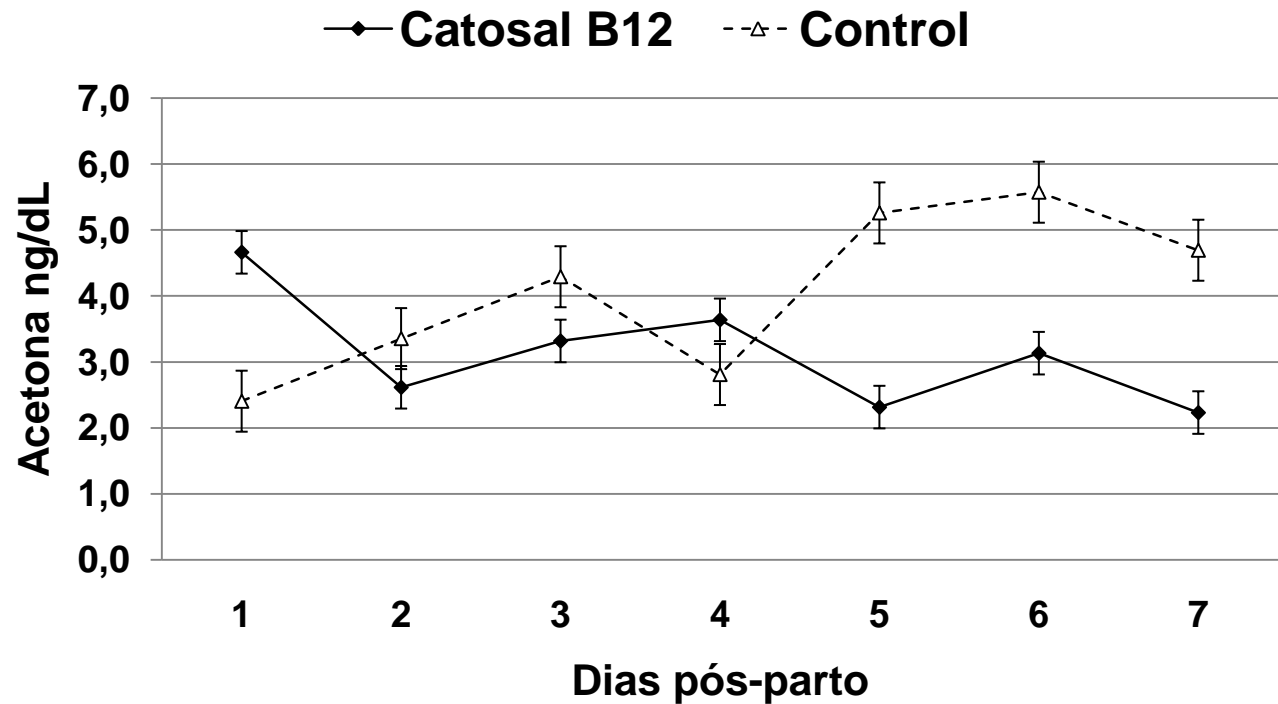
Limite de quantificação 0,8 ng/dL

Valores de P

Grupo = 0,1613

Dia = 0,8761

Grupo*Dia = 0,0201



Outras análises



NEFA
BHBA

Sugestões???



Muito obrigado a todos
Waiho Opitidao e todos

