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ABSTRACT

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or words: Anti-trypanosomal, Wheat-supplemented dies, " Oruga, "neastimina prespending Author: toscue@yahoo.com Tel: +234-303-388-3658

INTRODUCTION

STORY STORY LA

man Trypanosomiasis, also known as sectoress, is a severe disease that is in / left untreated (Pentreath and 2004). The mechanisms singuistiy and adverse with from some drug treatments are metally understood and remain a mirrable challenge to sustainable control in donase (Pentreath and Kennedy, M. There are indications that organs are and by trypanosomes with the central and system involvement leading to coma limit (Sternberg, 2004).

and its products are part of the western diet. Fermented wheat germ at affed avenuer has been reported to of growth and proliferation mainly mbonucleotide reductase, make new DNA to support Sukkar and Edoardo, 2004). ात सं र्थ (1999; 2002), also, reported

that fermented upod deto have made influence on gestromustimo which s lowering gastric pill, the manaley, measure short chain tatty mists, materials, materials activity and improving monoton continuous We have nacites operiors too to idnunistration of diffyanceura sales. fermented wheat room out to seemen candidate in the management is served sleeping sickness: Yhous am I down a server In this report, we issessed in also wheat-supplemented the second replication in " Drawn mental task

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The feed was focusation with its alternaclasses of food own search teach on distinguished as a second of controlled (Meetler dried milled super Square mile own to receive pure supposes oil man own or specimen comrice hask was used to the

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ingredients of the feed included DL-

methione and

l vitamin/mineral

mix

Table 1: Feed Composition (g/kg)

Feed component	Weight(g/kg)	
Corn/wheat starch	516	
Soya bean	250	
Oil	40	
Cellulose (Rice husk)	40	
Vitamin/mineral mix	50	
DL - Methionine	4	
Sucrose	100	
Total	1000	
Source: Ekanom at al (2006)		

Source: Ekanem et al. (2006)

Inoculation of Rat

Parasite-infected blood was obtained from the tail of infected rats at high parasitaemia and used to maintain parasite suspension in 0.90% saline solution which was inoculated into the peritonneal cavity of uninfected rat weighing approximately 180 to 200g. The suspension contained 3 to 4 trypanosomes per view at $\times 40$ magnification (approximately 10^6 cells per ml).

Parasite Count

Parasitaemia was determined by counting the number of trypanosomes per view under light microscope at ×40 magnification from thin blood smear obtained from the tip of the tail of infected rats.

Proximate Analysis

Proximate analysis was carried out as described in AOAC (1999) to estimate moisture, crude fibre, fat and ash content. The

carbohydrate content was estimated using anthrone method.

Experimental Design

In the experiment, there were three groups of rats and each comprised of four rats. Group 1 comprises of infected rats fed with Control diet (control), group 2 were infected early treated (treatment commenced the first day of sighting parasite in the blood) and group 3 were infected prophylactic treated (treatment commenced 72hr before infection).

Statistical Analysis

The group means \pm standard error (SEM) was calculated for each analysis and significant difference between means was evaluated by analysis of variance (ANOVA). Post test analysis was done using the Duncan multiple comparison tests. Values of (p20.05) were considered as statistically significantly (Adamu and Johnson, 1997).

 $(5.876 \pm 0.005\%)$, composition.

0.005%, lipid (11.690 ± 0.017%), Mossere

content (7.756 ± 0.005%), and Protein

RESULTS

_{proximate} composition of wheat

The proximate composition of wheat used The product work (Table 2) shows that for hydrate forms the highest 70. for this the highest 72.503 ± carbohydrate forms the highest 72.503 ±

carbohyurate composition of wheat used in this study

PERCENTAGE (%) ± S.D. FOOD CLASS 72.503 ± 0.005 Carbohydrate 5.876 ± 0.005 protein 11.690 ± 0.017 Lipid 1.340 ± 0.017 Crude fibre 0.833 ± 0.005 Moisture content 7.756 ± 0.005

is a mean of value 3 determination S.D ± Each

composition wheatof Proximate supplemented diet and control diet

The result of proximate composition of wheat supplemented diet and control diet shows that wheat supplemented had high percentage of carbohydrate (53.443 \pm 0.005%), lipid (13.656 \pm 0.011%), Moisture

content (8.460 \pm 0.010%), and Protein (18.316 \pm 0.005%) compared to the Control diet that had carbohydrate (57.990 ± 0.020%), lipid (12.336 \pm 0.005%), Moisture content $(5.686\pm 0.005\%)$, and Protein $(16.800 \pm 0.010\%)$.

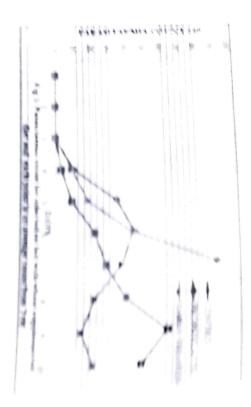
Table 3: Proximate composition of wheat supplemented diet and control diet.

00D CLASS	WHEAT DIET	CONTROL DIET
	Percentage (%) ± S.D	Percentage (%) ± S.D
^{arbo} hydrate	53.443 ± 0.005	57.990 ± 0.020
otein	18.316 ± 0.005	16.800 ± 0.010
pid	13.656 ± 0.011	12.336 ± 0.005
^{ude} fibre		3.350 ± 0.010
h	2.653 ± 0.050	3.836 ± 0.005
2	3.470 ± 0.010	
Disture content	8.460 ± 0.010	5.686 ± 0.005

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pepthesaum prot peed Plant openies have been reported to posses supplemental diet changed compared to the (Scholten et al. 2002), whereas in the present study the nutrient level of wheat brace intertion in the literature, mainly the regular western due and has been reported to have themseperate properties but no trypateocidal activity (Freightinghaus et 13503±0.005 for seed to 53.443±0.005 for seed to 53.443± way that the carbohydrate level decreased effect of wheat feed intake has been studied elles of wheat-supplemented diet on send used in the feed formulation in such a 1996, Bluet et al., 2004). Wheat is part of the Commen has been done to ascertain the Supplemented diet were The composition of wheat

righthicaeth is termulates do seed (Table : and : Magazoud moisture content shown high percentage Supplemented (Cantrol dos Carbohydrate of the Control and the days. wheat-supplements do "566 04-11-10-15-4 Awardinas 020-0-1066-25 Domestandans The effect of feeding of whois organization dies on the heavision for the second second or the secon Typanosoma addition Dar as its DITEST OF Span of 門グスス F State of present New applicación. Spirits Spirits Ź Of wheel or Simple 10 100 発を見 The Contra NHBH-,740 OHO. Opening and relative Sealtharday. No. 0428gg.; COMMENSO A Reposition 9 Service and

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of T. bruce. parastraemia level and extends the life Shar ethylacetate extract of wheat seed previous studies that the administration of These findings positive effect Composition D Yusur and Examen on the Datastasem Seen TRE DHE. H 20 Spirit S H 2010 15.30 Jeames. 27 to the 1997

DEDICATION

This paper is dedicated to the cherished memory of late venerable leacher In Its Examen. He was my Exc leacher Misseacher and supervisor and Phill guide and mentor.

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