



horse dog cat

PRODUCT INFORMATION

LACTATE-STUDY

Active Mineral
PANACEO

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VETAMIN-products are natural, mineral preparations, obtained by tribomechanical micro ionization. The main component is Ceolith, a hydrated natural micro porous crystal, mostly consistent of Klinoptilolith.

VETAMIN-Products operate as antioxidants and scavenge free radicals out of the body of humans and animals.

Research done worldwide has shown that most diseases in the body occur of the effect of free radicals.

Manufacturing

The raw material ceolith is mechanically treated with a new high speed mill, which microionizes the crystals within seconds to nano particle size.

The Mineral Zeolith-Klinoptilolith

Ceoliths are hydrated natural micro porous crystals with well defined structures. Zeolith has been used in various industrial applications as catalysts, ion exchangers or adsorbents of ammonium, caesium or other heavy metal substances as well as free radicals and lactate reduction shown in this recent study.

Zeolith is used in the feed of animals since years. The positive effect is lower use of feed and healthier animals.

Available studies:

Dr. Plautz, Laktat-Studie Pferde

Privatklinik Villach, Freie Radikalen Studie am Menschen (FRAS-Test)

Dr. Pavelic, Immunostimulatory effect of natural clinoptilolite as a possible mechanism of its anti-metastatic ability, (J Cancer Res Clin Oncol (2002) 128: 37-44 DOI 10.1007/s00432-001-0301-6)

Dr. Pavelic, Natural zeolite clinoptilolite: new adjuvant in anticancer therapy,

© Springer-Verlag 2001, (J Mol Med (2001) 78:708-720 DOI 10.1007/s001090000176)

Univ.-Doz. Dr. Abuja, Antioxidative Aktivität von Panaceo

Dr. Knapitsch, Laktat-Studie Menschen

Evaluation of the study of the dietary supplement



**Measurements of blood lactate in
the serum of sport horses.**



Introduction

During the period of 4.12.2004-28.12.2004 this study was taken in Carinthia/Austria under the supervision of Dr. vet med Wolfgang Plautz. The aim of the study was to show the improvement of performance in sporthorses with the dietary supplement VETAMIN under reduction of serum lactate.

Material and method

The study was taken with 11 warmblood horses (4 male, 1 stallion and 6 mares). 9 horses out of the eleven were feed the mineral VETAMIN twice daily, 2 horses did not get a dietary supplement. The horses not feed with VETAMIN were selected by a neutral person and were not known until the end of the study.

The training of the horses was done with a tread mill-horse trainer of the firm Bogengard with a maximum speed of 16 km/h and a maximal graduation of 21%. Before the beginning of the study the horses were trained on the tread mill.

Blood samples were taken out of the jugular vein and serum lactate was evaluated by the tool of Accutrend Lacat of the firm Roche.

All horses were trained with the same intensity and the same time during the test.

The first test was done at the 4th and 5th of December.

Blood samples of all horses were evaluated before the beginning of the test and the lactate was taken as 100% basis measurement.

Horses were feed 50g of VETAMIN, once a day, additional to the diary feed of grain and one hour before the beginning of the training.

The second test was done on the 16th and 17th of December.

The third test was done on the 28th and 29th of December.

1. Blood samples of all horses were taken before the beginning of the training on the tread mill.
2. Warming up was done by 5 min walk(6kmh) and 5 min trot(10km/h), afterwards the second blood sample was taken.
3. Training was continued by 5 min trot (speed was enhanced from10-14km/h, and graduation was enhanced 5-21%), third samples were taken afterwards.
4. Training was continued with 5 min trot(14km/h) and 21% graduation; the fourth samples were taken afterwards. One horse showed a heartrate of 194 after 3 min of training and therefore the fourth blood sample had to be taken earlier and test was continued with Point 7. This horse did not show any problems furthermore and continued the study.

5. Training was continued with 5 min trot(16km/h) and 21% graduation; the fifth samples were taken afterwards. One horse showed a heartrate of 212 after 2 min of training and therefore the fifth blood sample had to be taken earlier and test was continued with Point 7. This horse did not show any problems furthermore and test 2 and 3 were done as usual.
6. With the other 8 horses training was continued with 5min trot (16km/h) and graduation of 21%, then blood samples were taken for the sixth time.
7. After another 5min walk on the treat mill, the seventh measurement was done.
8. and 9th measurements were done after 5 and 10min walk.

Results

The results of the measurements are shown in the following diagrams. The decrease of serum lactate between the measurements 2 and 3 was significant.

Four horses showed a significant decrease of serum lactate within the first to third measurement. Three out of this horse were younger than 6 years. One 24 years old male did not show any change in serum lactate, this could be due to a lack of absorption within the gut system.

The decrease of serum lactate of the horses feed with VETAMIN was 23, 2% less than the basis measurement.

Horses not feed with VETAMIN showed an increase of serum lactate of 1,32%. Due to the change of serum lactate concentration you can see the connection of feeding VETAMIN.

Conclusion

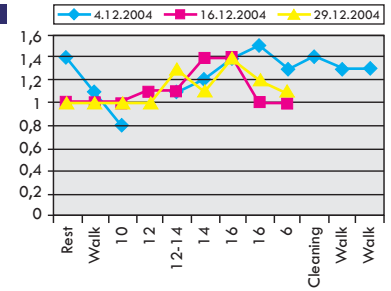
There is a significant decrease of serum lactate within the first to third measurement.

Horses feed VETAMIN should be feed during a period of minimum 3 to 4 weeks to obtain an obvious effect.

A handwritten signature in blue ink is written over a rectangular stamp. The stamp contains the text: 'TIERÄRZTE', 'Dr. V. Frank / Dr. S. Stefan', 'Tröstentw. St. 04252/3320', and '0243 W E H N E B E R G'.

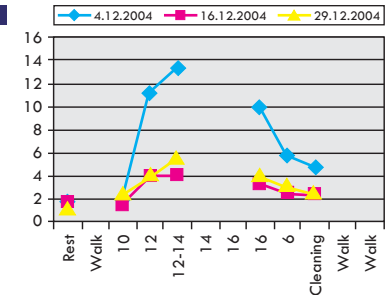
Graziano

	04.12.2004	16.12.2004	29.12.2004	% Änderung 1 auf 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,4	1	1	-28,57 %	0,00 %	-28,57 %
Walk	1,1	1	1	-9,09 %	0,00 %	-9,09 %
10	0,8	1	1	25,00 %	0,00 %	25,00 %
12		1,1	1		-9,09 %	
12 - 14	1,1	1,1	1,3	0,00 %	18,18 %	18,18 %
14	1,2	1,4	1,1	16,67 %	-21,43 %	-8,33 %
16	1,4	1,4	1,4	0,00 %	0,00 %	0,00 %
16	1,5	1	1,2	-33,33 %	20,00 %	-20,00 %
6	1,3	1	1,1	-23,08 %	10,00 %	-15,38 %
Cleaning	1,4					
Walking	1,3					
Wanking	1,3					
Value of all tests				-6,55	1,96 %	-4,77 %



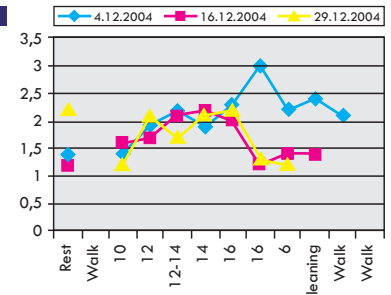
Ponte

	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,4	1,6	1,1	14,29 %	-31,25 %	-21,43 %
Walk						
10	1,8	1,5	2,3	-16,67 %	53,33 %	27,78 %
12	11,3	3,9	3,9	-65,49 %	0,00 %	-65,49 %
12 - 14	13,4	4,1	5,5	-69,40 %	34,15 %	-58,96 %
14						
16						
16	10	3,2	4	-68,00 %	25,00 %	-60,00 %
6	5,7	2,5	3,1	-56,14 %	24,00 %	-45,61 %
Cleaning	4,7	2,3	2,3	-51,06 %	0,00 %	-51,06 %
Walking						
Wanking						
Value of all tests				-44,64 %	15,03 %	-39,25 %



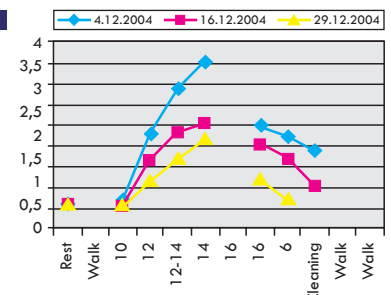
Luna

	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,40	1,20	2,20	-14,29 %	83,33 %	57,14 %
Walk						
10	1,40	1,60	1,20	14,29 %	-25,00 %	-14,29 %
12	1,90	1,70	2,10	-10,53 %	23,53 %	10,53 %
12 - 14	2,20	2,10	1,70	-4,55 %	-19,05 %	-22,73 %
14	1,90	2,20	2,10	15,79 %	-4,55 %	10,53 %
16	2,30	2,00	2,20	-13,04 %	10,00 %	-4,35 %
16	3,00	1,20	1,30	-60,00 %	8,33 %	-56,67 %
6	2,20	1,40	1,20	-36,36 %	-14,29 %	-45,45 %
Cleaning	2,40	1,40		-41,67 %		
Walking	2,10					
Wanking						
Value of all tests				-16,71 %	7,79 %	-8,16 %



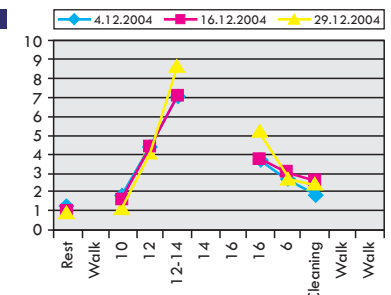
Lady

	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,3	1,1	1,2	-15,38 %	9,09 %	-7,69 %
Walk						
10	1,4	1,1	1,2	-21,43 %	9,09 %	-14,29 %
12	4,6	3,3	2,3	-28,26 %	-30,30 %	-50,00 %
12 - 14	6,8	4,7	3,4	-30,88 %	-27,66 %	-50,00 %
14	8,1	5,1	4,3	-37,04 %	-15,69 %	-46,91 %
16						
16	5	4,1	2,4	-18,00 %	-41,46 %	-52,00 %
6	4,4	3,4	1,4	-22,73 %	-58,82 %	-68,18 %
Cleaning	3,7	2,1		-43,24 %		
Walking						
Wanking						
Value of all tests				-27,12 %	-22,25 %	-41,30 %



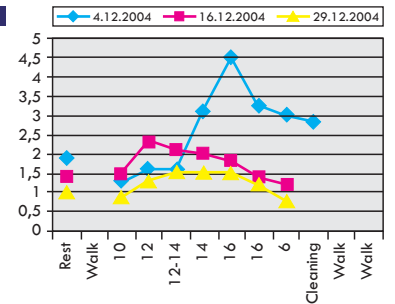
Grecco

	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,2	0,9	0,9	-25,00 %	0,00 %	-25,00 %
Walk						
10	1,8	1,5	1,1	-16,67 %	-26,67 %	-38,89 %
12	4,1	4,4	4	7,32 %	-9,09 %	-2,44 %
12 - 14	7,2	7	8,6	-2,78 %	22,86 %	19,44 %
14						
16						
16	3,7	3,7	5,2	0,00 %	40,54 %	40,54 %
6	2,6	3	2,7	15,38 %	-10,00 %	3,85 %
Cleaning	1,8	2,6	2,4	44,44 %	-7,69 %	33,33 %
Walking						
Wanking						
Value of all tests				3,24 %	1,42 %	4,41 %



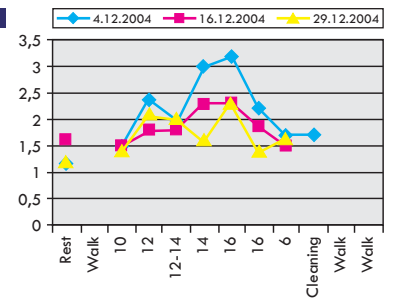
Capuccino

	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,9	1,4	1	-26,32 %	-28,57 %	-47,37 %
Walk						
10	1,3	1,5	0,9	15,38 %	-40,00 %	-30,77 %
12	1,6	2,3	1,3	43,75 %	-43,48 %	-18,75 %
12 - 14	1,6	2,1	1,5	31,25 %	-28,57 %	-6,25 %
14	3,1	2	1,5	-35,48 %	-25,00 %	-51,61 %
16	4,5	1,8	1,5	-60,00 %	-16,67 %	-66,67 %
16	3,2	1,4	1,2	-56,25 %	-14,29 %	-62,50 %
6	3	1,2	0,8	-60,00 %	-33,33 %	-73,33 %
Cleaning	2,8					
Walking						
Wanking						
Value of all tests				-18,46 %	-28,74 %	-44,66 %



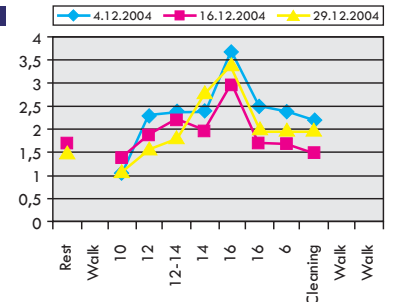
Lasly

	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,1	1,6	1,2	45,45 %	-25,00 %	9,09 %
Walk						
10	1,5	1,5	1,4	0,00 %	-6,67 %	-6,67 %
12	2,4	1,8	2,1	-25,00 %	16,67 %	-12,50 %
12 - 14	2	1,8	2	-10,00 %	11,11 %	0,00 %
14	3	2,3	1,6	-23,33 %	-30,43 %	-46,67 %
16	3,2	2,3	2,3	-28,13 %	0,00 %	-28,13 %
16	2,2	1,9	1,4	-13,64 %	-26,32 %	-36,36 %
6	1,7	1,5	1,6	-11,76 %	6,67 %	-5,88 %
Cleaning	1,7					
Walking						
Wanking						
Value of all tests				-8,30 %	-6,75 %	-15,89 %



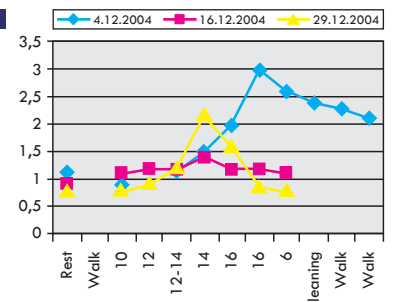
Roseanne

	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,7	1,7	1,5	0,00 %	-11,76 %	-11,76 %
Walk						
10	1,1	1,4	1,1	27,27 %	-21,43 %	0,00 %
12	2,3	1,9	1,6	-17,39 %	-15,79 %	-30,43 %
12 - 14	2,4	2,2	1,8	-8,33 %	-18,18 %	-25,00 %
14	2,4	2	2,8	-16,67 %	40,00 %	16,67 %
16	3,7	3	3,4	-18,92 %	13,33 %	-8,11 %
16	2,5	1,7	2	-32,00 %	17,65 %	-20,00 %
6	2,4	1,7	2	-29,17 %	17,65 %	-16,67 %
Cleaning	2,2	1,5	2	-31,82 %	33,33 %	-9,09 %
Walking						
Wanking						
Value of all tests				-14,11 %	6,09 %	-11,60 %



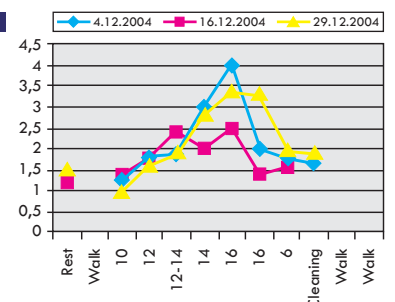
Camiro

	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,1	0,9	0,8	-18,18 %	-11,11 %	-27,27 %
Walk						
10	0,9	1,1	0,8	22,22 %	-27,27 %	-11,11 %
12		1,2	0,9		-25,00 %	
12 - 14	1,1	1,2	1,2	9,09 %	0,00 %	9,09 %
14	1,5	1,4	2,2	-6,67 %	57,14 %	46,67 %
16	2	1,2	1,6	-40,00 %	33,33 %	-20,00 %
16	3	1,2	0,9	-60,00 %	-25,00 %	-70,00 %
6	2,6	1,1	0,8	-57,69 %	-27,27 %	-69,23 %
Cleaning	2,4					
Walking	2,3					
Wanking	2,1					
Value of all tests				-21,60 %	-3,15 %	-20,27 %

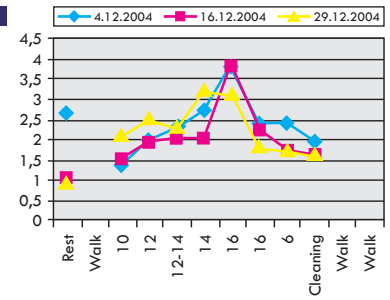


Princess without feeding VETAMIN

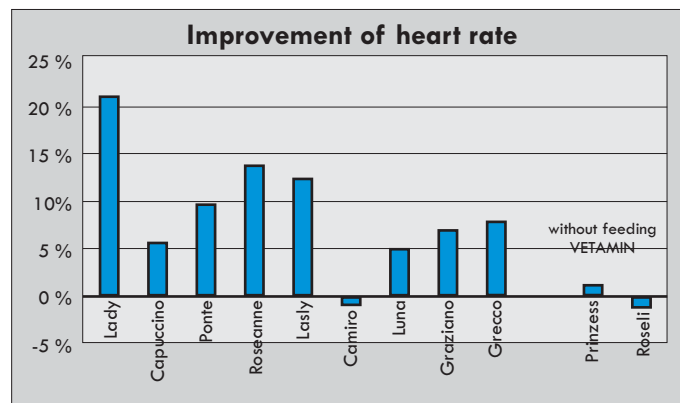
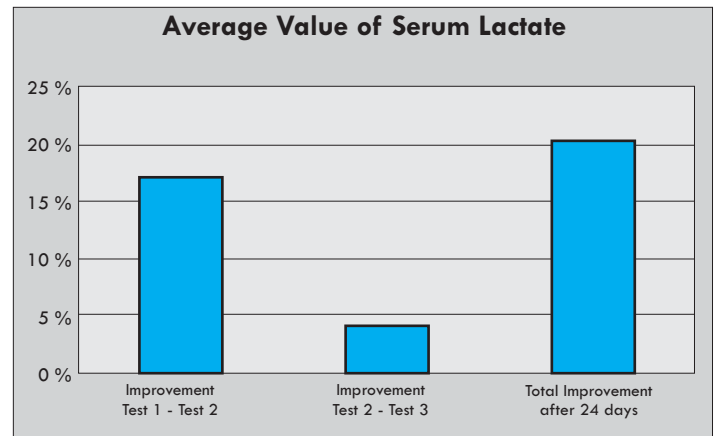
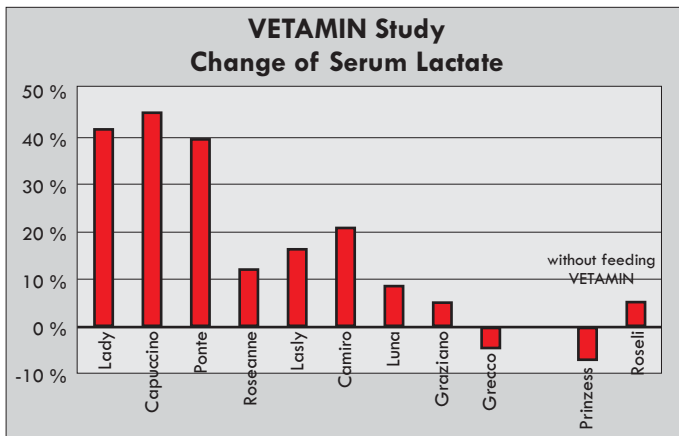
	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	1,2	1,2	1,5	0,00 %	25,00 %	25,00 %
Walk						
10	1,2	1,4	1	16,67 %	-28,57 %	-16,67 %
12	1,8	1,8	1,6	0,00 %	-11,11 %	-11,11 %
12 - 14	1,9	2,4	1,9	26,32 %	-20,83 %	0,00 %
14	3	2	2,8	-33,33 %	40,00 %	-6,67 %
16	4	2,5	3,4	-37,50 %	36,00 %	-15,00 %
16	2	1,4	3,3	-30,00 %	135,71 %	65,00 %
6	1,8	1,6	2	-11,11 %	25,00 %	11,11 %
Cleaning	1,7		1,9			
Walking						
Wanking						
Value of all tests				-8,62 %	25,15 %	7,05 %



Roseli without feeding VETAMIN						
	04.12.2004	16.12.2004	29.12.2004	% Change 1 - 2	% Change 2 - 3	% Change 1 - 3
Speed						
Rest	2,6	1	0,9	-61,54 %	-10,00 %	-65,38 %
Walk						
10	1,3	1,5	2,1	15,38 %	40,00 %	61,54 %
12	1,9	1,9	2,5	0,00 %	31,58 %	31,58 %
12 - 14	2,2	2	2,3	-9,09 %	15,00 %	4,55 %
14	2,7	2	3,2	-25,93 %	60,00 %	18,52 %
16	3,9	3,8	3,1	-2,56 %	-18,42 %	-20,51 %
16	2,4	2,2	1,8	-8,33 %	-18,18 %	-25,00 %
6	2,4	1,7	1,7	-29,17 %	0,00 %	-29,17 %
Cleaning	1,9	1,6	1,6	-15,79 %	0,00 %	-15,79 %
Walking						
Wanking						
Value of all tests				-15,22 %	11,11 %	-4,41 %



Average value				
	with VETAMIN	-17,14 %	-3,18 %	-20,17 %
	without Grecco	-19,69 %	-3,75 %	-23,24 %
	without feeding VETAMIN	-11,92 %	18,13 %	1,32 %



CHANGE OF HEART RATE

GRAZIANO	1	2	3			
Speed	04.12.2004	16.12.2004	29.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
16	148	136	138	-8,11 %	1,47 %	-6,76 %
16	152	140	142	-7,89 %	1,43 %	-6,58 %
Average Value				-8,00 %	1,45 %	-6,67 %

PONTE	1	2	3			
Speed	04.12.2004	16.12.2004	28.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
10 bis 14	184	172	164	-6,52 %	-4,65 %	-10,87 %
14	194	178	178	-8,25 %	0,00 %	-8,25 %
Average Value				-7,38 %	-2,33 %	-9,56 %

LUNA	1	2	3			
Speed	04.12.2004	16.12.2004	28.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
16	200	168	162	-16,00 %	-3,57 %	-19,00 %
16	212	180	164	-15,09 %	-8,89 %	-22,64 %
Average Value				-15,55 %	-6,23 %	-20,82 %

LADY	1	2	3			
Speed	04.12.2004	16.12.2004	29.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
14	148	136	138	-8,11 %	1,47 %	-6,76 %
16	152	140	142	-7,89 %	1,43 %	-6,58 %
Average Value				-8,00 %	1,45 %	-6,67 %

GRECCO	1	2	3			
Speed	04.12.2004	16.12.2004	28.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
14	176	172	164	-2,27 %	-4,65 %	-6,82 %
14	185	180	170	-2,70 %	-5,56 %	-8,11 %
Average Value				-2,49 %	-5,10 %	-7,46 %

CAPUCCINO	1	2	3			
Speed	04.12.2004	16.12.2004	28.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
16	164	158	156	-3,66 %	-1,27 %	-4,88 %
16	172	164	162	-4,65 %	-1,22 %	-5,81 %
Average Value				-4,15 %	-1,24 %	-5,35 %

LASLY	1	2	3			
Speed	08.12.2004	17.12.2004	28.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
16	175	164	154	-6,29 %	-6,10 %	-12,00 %
16	185	170	162	-8,11 %	-4,71 %	-12,43 %
Average Value				-7,20 %	-5,40 %	-12,22 %

ROSEANNE	1	2	3			
Speed	04.12.2004	16.12.2004	29.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
16	184	162	156	-11,96 %	-3,70 %	-15,22 %
16	180	172	158	-4,44 %	-8,14 %	-12,22 %
Average Value				-8,20 %	-5,92 %	-13,72 %

CAMIRO	1	2	3			
Speed	04.12.2004	16.12.2004	29.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
16	136	136	138	0,00 %	1,47 %	1,47 %
16	138	132	138	-4,53 %	4,55 %	0,00 %
Average Value				-2,17 %	3,01 %	0,74 %

Horses without feeding VETAMIN

PRINZESS	1	2	3			
Speed	04.12.2004	16.12.2004	29.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
16	178	162	175	-8,99 %	8,02 %	-1,69 %
16	182	168	182	-7,69 %	8,33 %	0,00 %
Average Value				-8,34 %	8,18 %	-0,84 %

ROSELI	1	2	3			
Speed	04.12.2004	16.12.2004	28.12.2004	%-Change 1 - 2	%-Change 2 - 3	%-Change 1 - 3
16	178	162	182	-8,99 %	12,35 %	2,25 %
16	181	172	180	-4,97 %	4,65 %	-0,55 %
Average Value				-6,98 %	8,50 %	0,85 %