

**Federal Agency for Medicines and Health Products**

**Agence fédérale des médicaments  
et des produits de santé**

**Federaal agentschap voor geneesmiddelen en  
gezondheidsproducten**

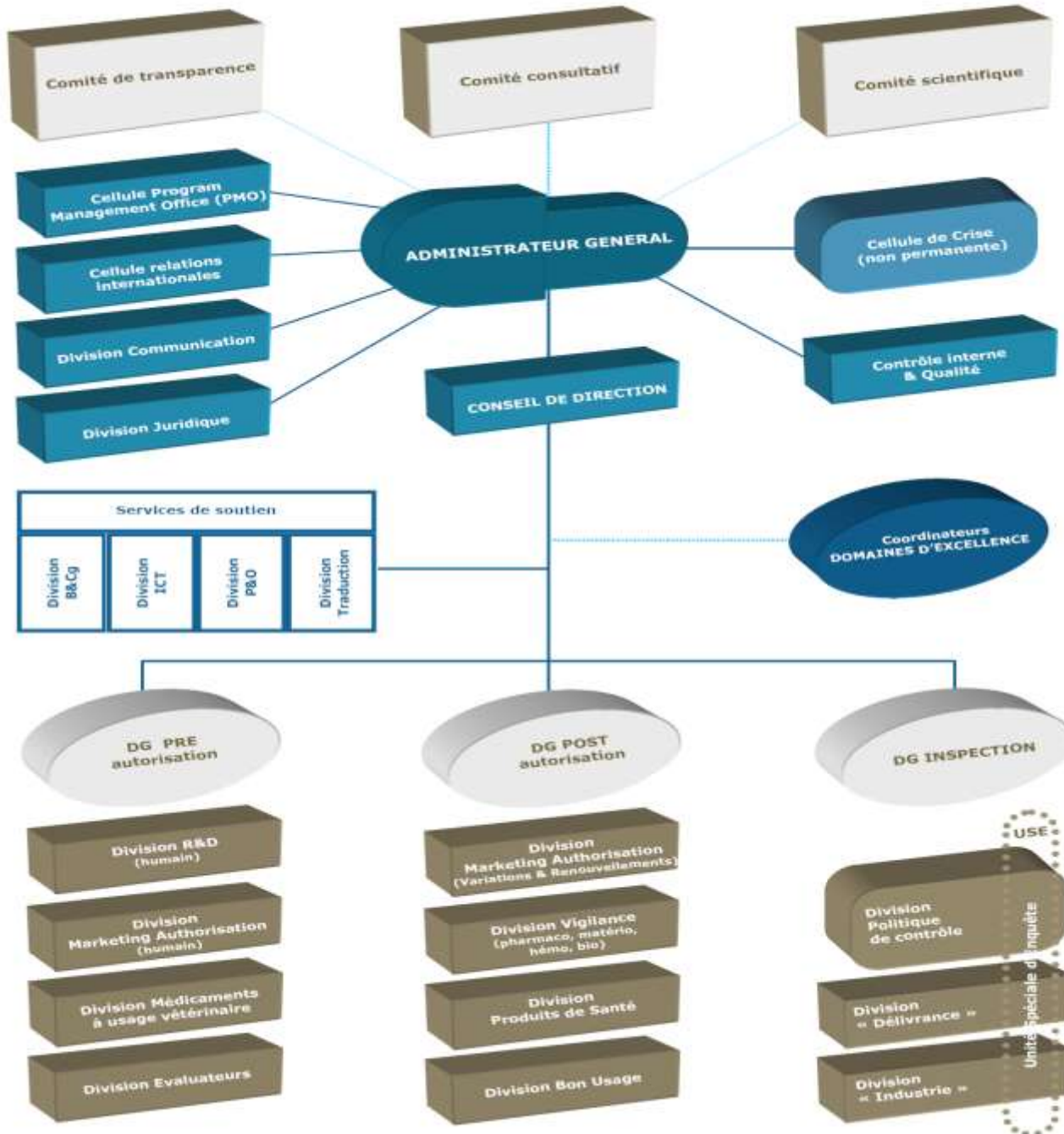
# **Pharmaceutical Crime**



UNODC Conference on Fraudulent Medicines, Vienna 14-15 february 2013

Roy Vancauwenberghe    Head of Special Investigation Unit    0475/45.64.76





# Pharmaceutical Crime

## Crime phenomena

## Mechanisms

- 1) Narcotic & Psychotropic medicinal products
- 3) Veterinary related crime
- 5) (Adulterated) food supplements
- 7) Unlicensed Medicines
- 9) Doping (H & V)
- 11) Counterfeit & IPR related problems
- 13) Forgery (adulteration, tampering, falsification)
- 14) Theft

- 2) Internet
- 4) Diversion
- 6) Authorizations
- 8) Import, Export, Transit
- 10) Mailorder, Courier
- 12) GMP-GDP-GCP-GVP

**Presented as**

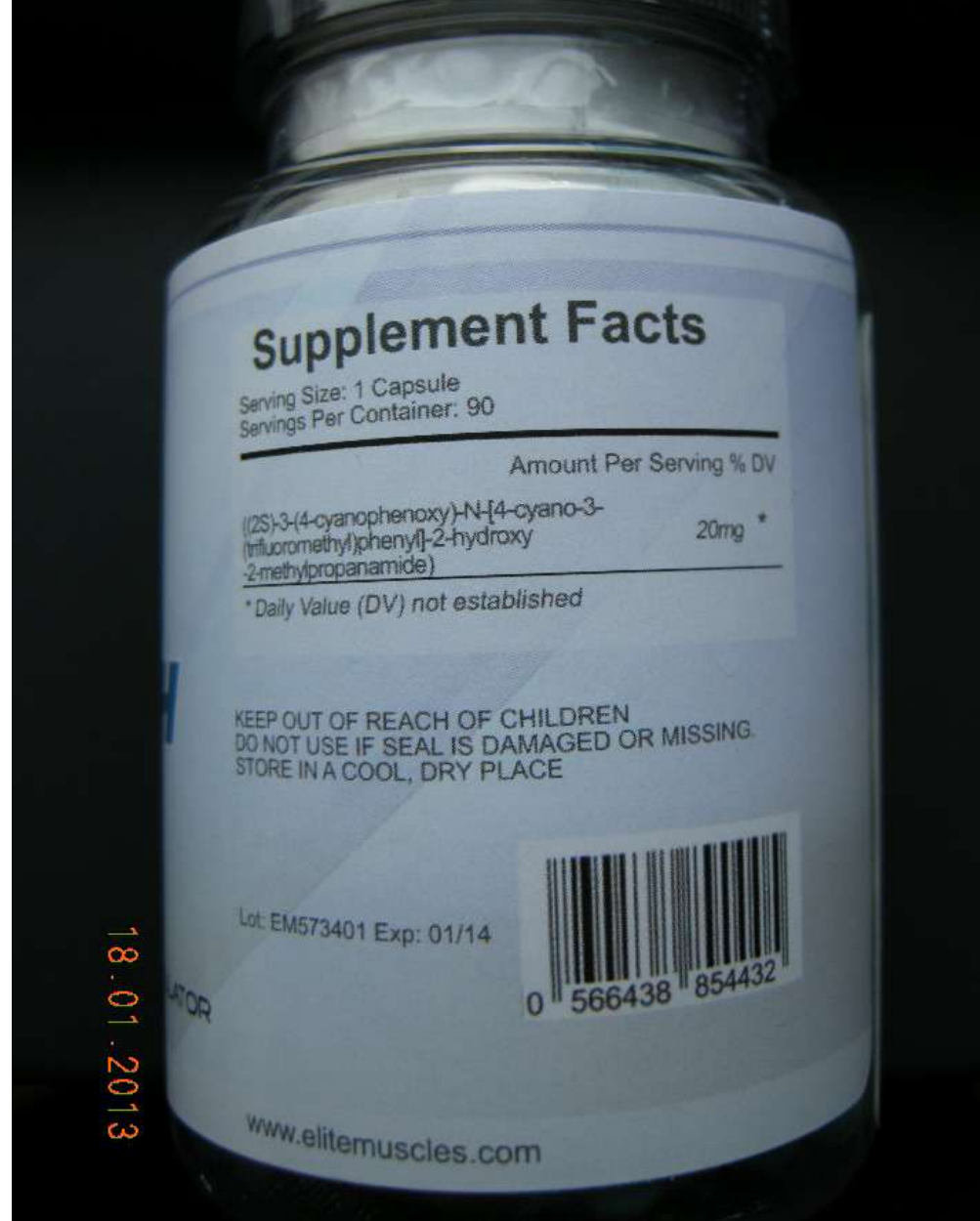
**FOOD SUPPLEMENTS**

**which are**

**MEDICINES**

**(with labeled APIs)**





Ebonosarm known as Ostarine

Investigational **Selective Androgen Receptor Modulator (SARM)**



**Bioactive GHRP-2 ester Z11(oral suspension)**

# HEXAGHEN

Pharmadynamic IGF-1 Optimizer\*  
Stimulates Muscle Cell Growth\*  
Mediates Muscle Hyperplasia\*  
FastSorb™ Delivery

**LIPOSOMAL DELIVERY**

**MAXIMUM  
IGF-1 OUTPUT\*†**

Dietary Supplement  
56 FastSorb™ Tablets

24.01.2013

Pharmadynamic IGF-1 Optimizer\*  
Stimulates Muscle Cell Growth\*  
Mediates Muscle Hyperplasia\*  
FastSorb™ Delivery

**LIPOSOMAL DELIVERY**

**MAXIMUM  
IGF-1 OUTPUT\*†**

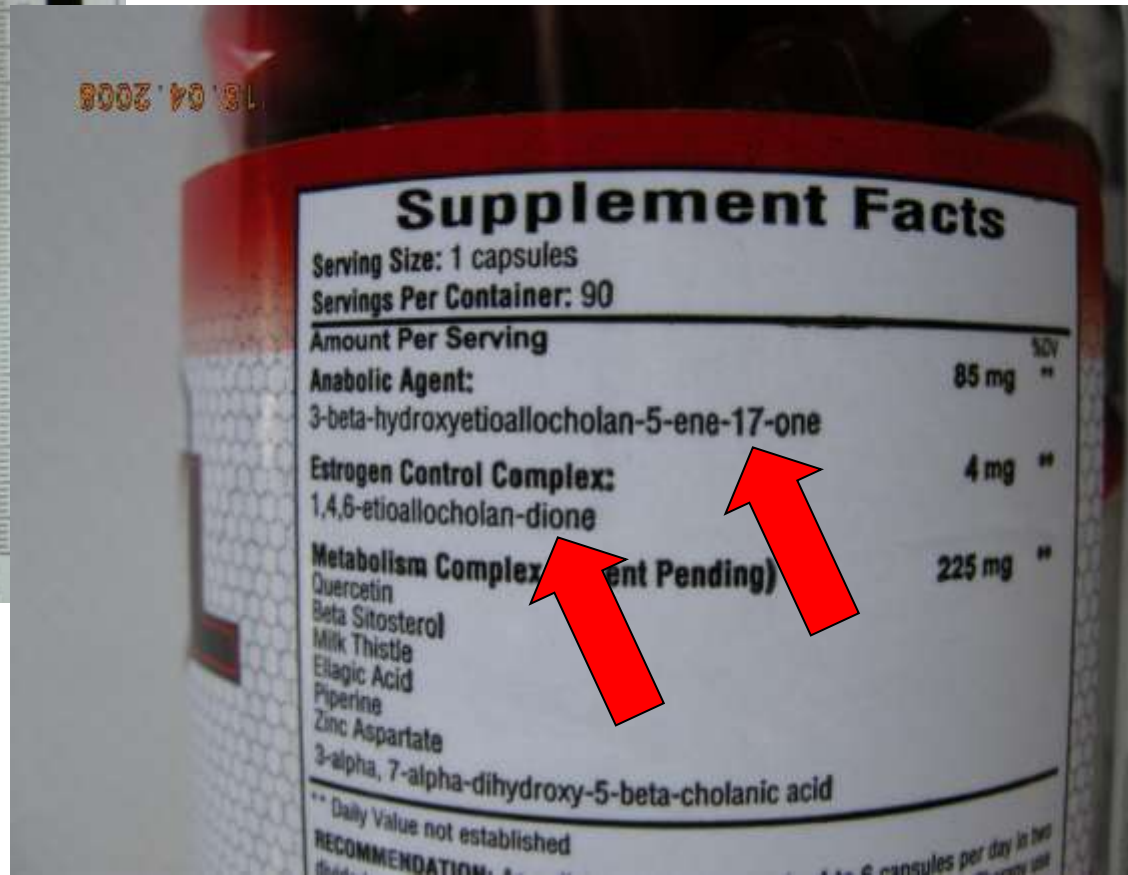
24.01.2013







Anti-estrogen + DHEA



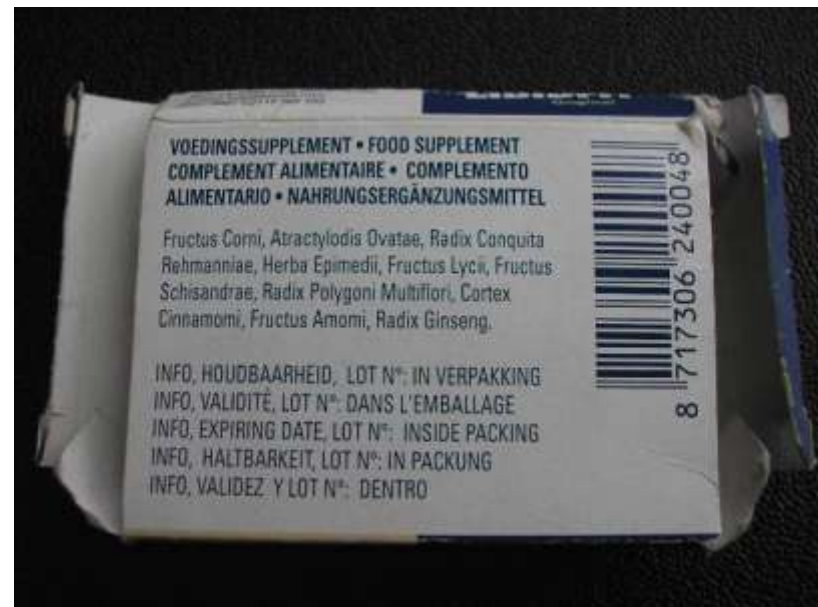
# **FOOD SUPPLEMENTS**

**which are**

**MEDICINES**

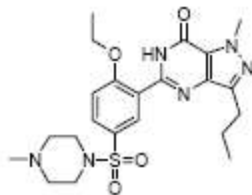
**(with non labeled &  
modified APIs)**





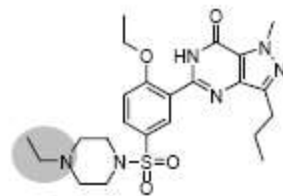
**Food Supplement  
Phyto product  
falsified with (acetildenafil)  
www: therapeutic claims**

Registered APIs

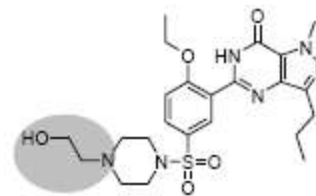


sildenafil (Viagra®)

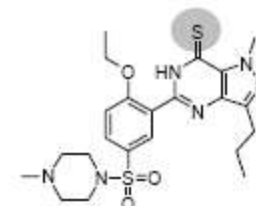
Analogs identified



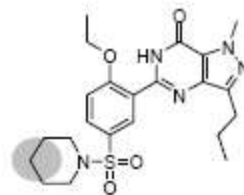
homosildenafil



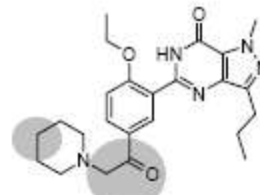
hydroxyhomosildenafil



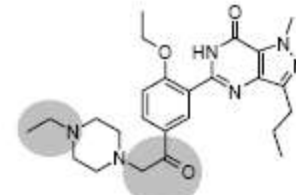
thiosildenafil



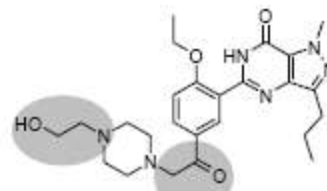
piperidino-sildenafil



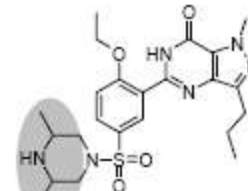
piperidino-acetildenafil



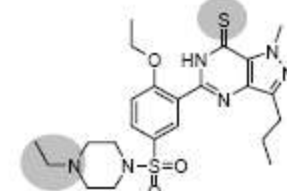
acetildenafil



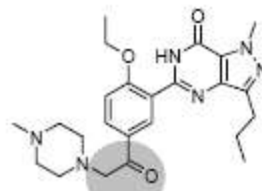
hydroxy-acetildenafil



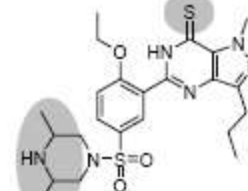
aildenafil



homo-thiosildenafil



nor-acetildenafil



thio-aildenafil

# Falsified with SIBUTRAMIN



**Table 1: A list of adulterants found in Chinese herbal medicines, and problems caused by adulterants  
(note that problems and adulterants are not linked in these lists)**

<b>Adulterants found</b>	<b>Problems caused</b>
aminopyrine	agranulocytosis
caffeine	arrhythmia
chlorzoxazone	coma
clobetasol proprionate	Cushing's syndrome
diazepam	diabetes
diclofenac	increased INR
dexamethasone	hypertension
ethoxybenzamide	hypoglycaemia
fluconolone acetone	gastrointestinal bleeding
glibenclamide	septic shock
hydrochlorothiazide	
hydrocortisone	
indomethacin	
mefenamic acid	
methylsalicylate	
paracetamol (acetaminophen)	
phenacetin	
phenytoin	
prednisolone	
sildenafil	

# **Counterfeit**

**Medical Products falsified**

**in relation to**

**identity, history or source**





**Falsified  
Anti-malarial**

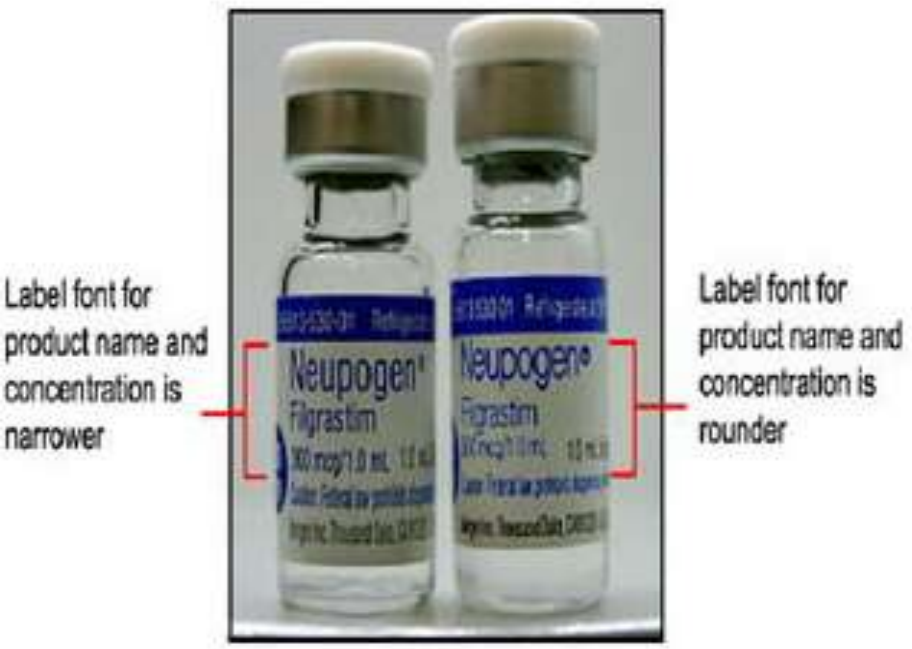
**AUTHENTIC**

**FAKE**

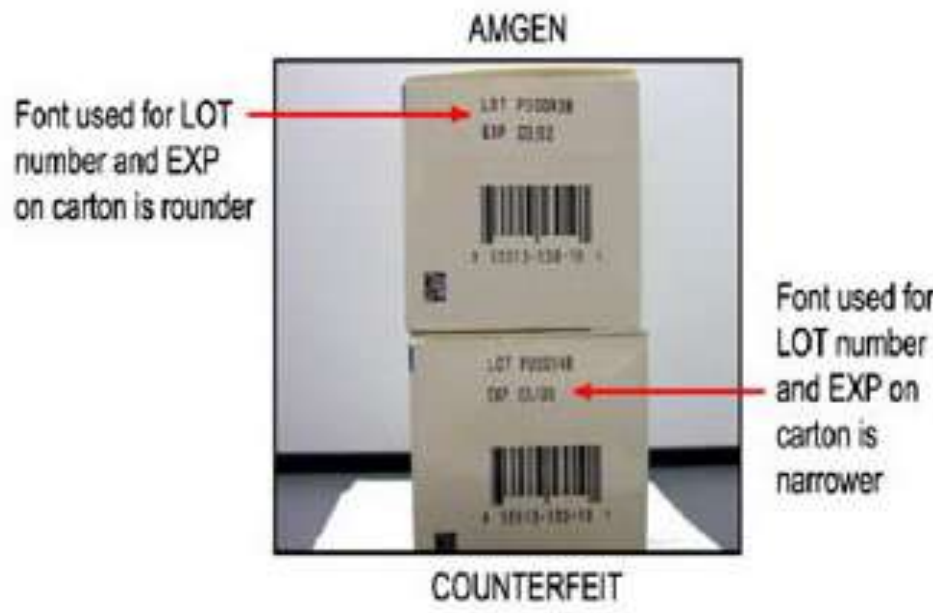


# Falsified veterinarian medicines





AMGEN COUNTERFEIT



COUNTERFEIT



COUNTERFEIT



AMGEN COUNTERFEIT

Source: FDA

**Authentic**



**Fake**



Source: FDA



530.000 Tablets



Destroying Nigerian pharma industry !!



# Amoxil

500 mg

amoxicillin

100 capsules

Beecham

Amoxil







# Winstrol<sup>®</sup> Depot

Stanozolol

Suspension inyectable intramuscular  
3 ampollas de 1 ml



09.04.2008

NO API !!





Falsified Novo Nordisk Norditropin SimpleXx

Illegal market

Sterility test: *Paenibacillus messiliensis*

source: AEMPS Spain

# MELANOTAN II

"Barbie drug" : Tanning & Aphrodisiac

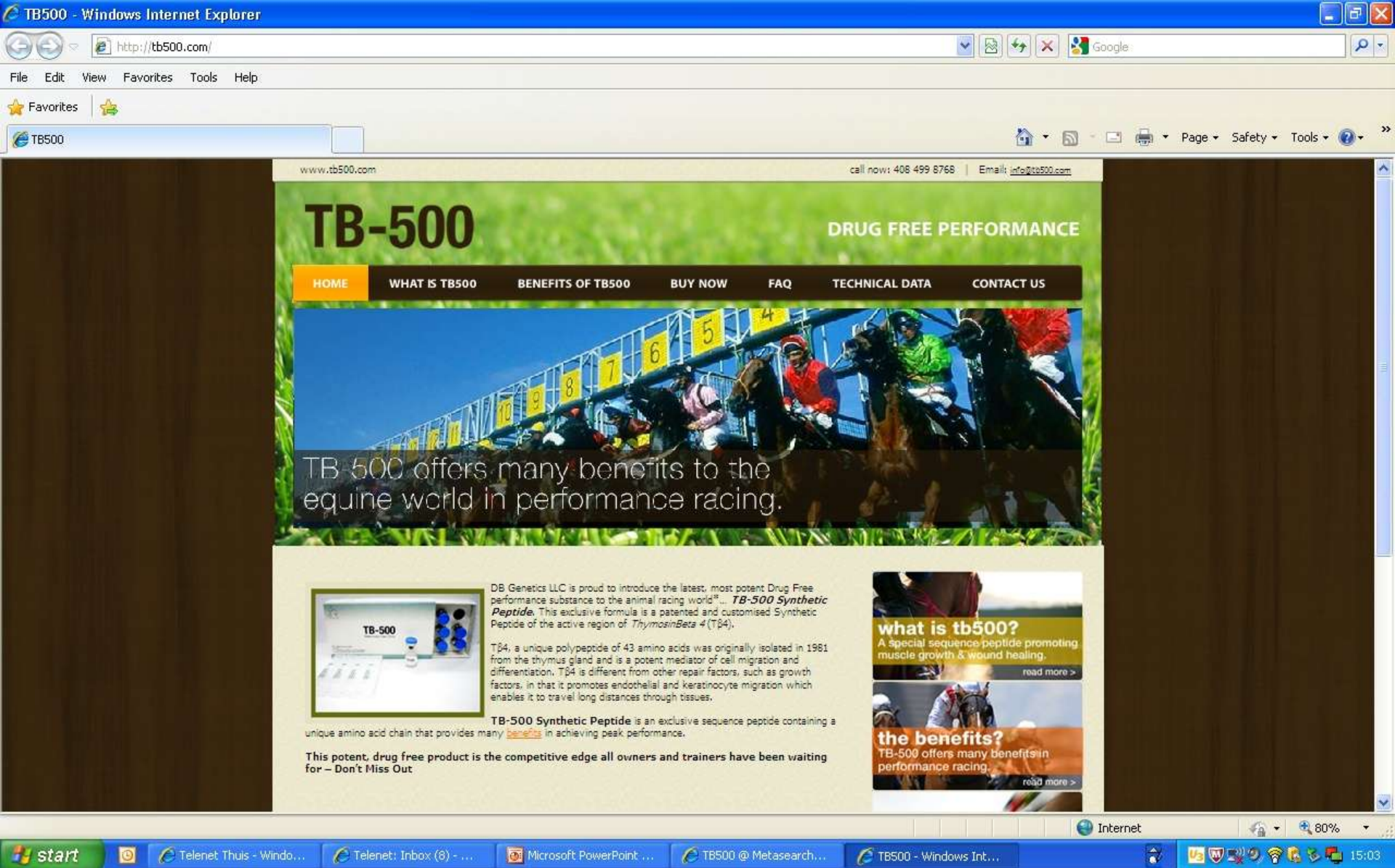


**MSH** (*Melanocyte Stimulating Hormone*) 1000 x more potent than natural alpha-MSH.

May cause skin cancer and damage immune and cardiovascular systems



**Shipped from China as MT2 (Melanotan)  
contains  
porcine **insulin** (2012).**



# TB-500

DRUG FREE PERFORMANCE

HOME

WHAT IS TB500

BENEFITS OF TB500

BUY NOW

FAQ

TECHNICAL DATA

CONTACT US

TB-500 offers many benefits to the equine world in performance racing.



DB Genetics LLC is proud to introduce the latest, most potent Drug Free performance substance to the animal racing world<sup>®</sup>... **TB-500 Synthetic Peptide**. This exclusive formula is a patented and customised Synthetic Peptide of the active region of *ThymosinBeta 4* (Tβ4).

Tβ4, a unique polypeptide of 43 amino acids was originally isolated in 1981 from the thymus gland and is a potent mediator of cell migration and differentiation. Tβ4 is different from other repair factors, such as growth factors, in that it promotes endothelial and keratinocyte migration which enables it to travel long distances through tissues.

**TB-500 Synthetic Peptide** is an exclusive sequence peptide containing a unique amino acid chain that provides many **benefits** in achieving peak performance.

**This potent, drug free product is the competitive edge all owners and trainers have been waiting for – Don't Miss Out**

**what is tb500?**  
A special sequence-peptide promoting muscle growth & wound healing.  
[read more >](#)

**the benefits?**  
TB-500 offers many benefits in performance racing.  
[read more >](#)

**Tβ4, a unique polypeptide of 43 amino acids  
most potent Drug Free performance substance to the animal racing world**



**TB-500** is a synthetic version of the naturally occurring peptide present in virtually all human and animal cells, **Thymosin Beta 4 (TB500)**. It is a first-in-class drug candidate that promotes the following:

Endothelial (blood vessels) cell differentiation

Angiogenesis (growth of new blood cells from pre-existing vessels) in dermal tissues

Keratinocyte migration

Collagen deposition; and

Decreases inflammation.

# **illegal medicines (without Marketing Authorization)**







Ship Munks  
1408 N Killian Dr Ste 211  
West Palm Beach, FL 33403-1961

From

18.01.2013

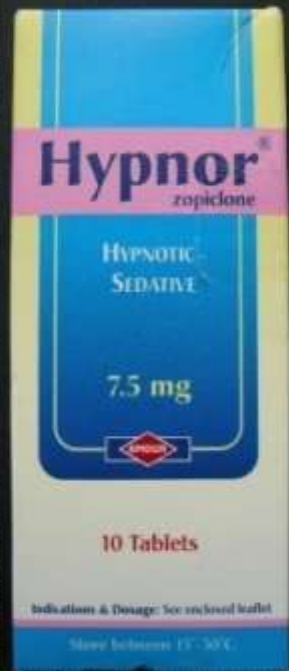


18.01.2013

GRF (1-29) or sermorelin CJC1295 =  
**Research peptides**  
Canadian ConjuChem clinical trials mid 2000s  
**Treatment of obesitas in AIDS patients**  
**Myocard infarct cases**









10.000 vials anabolic steroids from Egypt March 2009



PPS600  
SIRCHIE FINGER PRINT LABS., INC.



PPS600  
SIRCHIE FINGER PRINT LABS., INC.  
1-800-394-7311



PPS600  
SIRCHIE FINGER PRINT LABS., INC.  
1-800-394-7311



PPS600



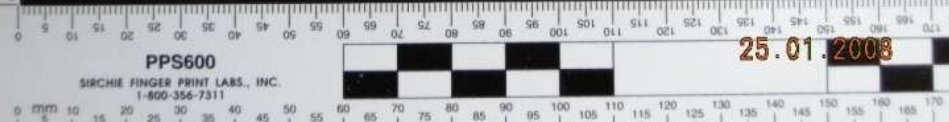
# FLARAXIN

Flaraxin is effective in 90% of oncologic diseases, it is a non-toxic anti-tumoral phytopreparation, Interferonogene, stimulating tumoral necrosis factor, destroys tumoral tissue. Immunomodulator and antioxidant. Prevents metastatic spreading and relapse. Flaraxin has no side effects unless the patient has a allergy on Iodine.

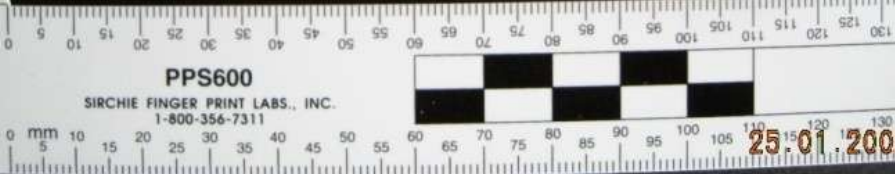
Clinical Research of the preparation "Flaraxin" was carried out in oncology department of Kiev medical institute in the period from September 1990 to January 1991 and In Kiev Oncology SRI under oncologic process in the stage of neglect desolation in patients with melanoblastoma in the period from December 1992 to October 1993 by the surgical oncologists Kulik Ivan Anisimovich.



25.01.2008



25.01.2008



25.01.2008



25.01.2008

# **Falsified Medical Devices**







INSTRUCTIONS FOR USE  
Please read the instructions carefully before using the product.  
The product is intended for use as a breast form in a bra.  
It is not intended for use as a medical device.  
The product is not intended for use on children or young people.  
The product is not intended for use on pregnant or breastfeeding women.  
The product is not intended for use on women with breast cancer or other breast conditions.  
The product is not intended for use on women with sensitive skin or allergies.  
The product is not intended for use on women with a history of breast surgery.  
The product is not intended for use on women with a history of breast implants.  
The product is not intended for use on women with a history of breast reconstruction.  
The product is not intended for use on women with a history of breast cancer treatment.  
The product is not intended for use on women with a history of breast cancer diagnosis.  
The product is not intended for use on women with a history of breast cancer recurrence.  
The product is not intended for use on women with a history of breast cancer relapse.  
The product is not intended for use on women with a history of breast cancer metastasis.  
The product is not intended for use on women with a history of breast cancer death.  
The product is not intended for use on women with a history of breast cancer survival.  
The product is not intended for use on women with a history of breast cancer cure.  
The product is not intended for use on women with a history of breast cancer remission.  
The product is not intended for use on women with a history of breast cancer recovery.  
The product is not intended for use on women with a history of breast cancer healing.  
The product is not intended for use on women with a history of breast cancer relief.  
The product is not intended for use on women with a history of breast cancer comfort.  
The product is not intended for use on women with a history of breast cancer support.  
The product is not intended for use on women with a history of breast cancer care.  
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The product is not intended for use on women with a history of breast cancer relief.  
The product is not intended for use on women with a history of breast cancer comfort.  
The product is not intended for use on women with a history of breast cancer support.  
The product is not intended for use on women with a history of breast cancer care.

CE 0157





25889  
PROJ. 1001 07  
180711 - Prof. 01/10  
10000 - Features 1 - 1/2010



## Urgente Veiligheidsinformatie voor klanten:

### Valse Covidien Nellcor SpO<sub>2</sub> Durasensor® (DS-100A) sensoren



Originele Nellcor Durasensor® (DS-100A)	Vervalste sensor !
<b>Sensor</b>	
<b>Duidelijke onderscheidende eigenschap:</b>	
1) Glimmende afwerking - originele behuizing	1) Doffe afwerking – valse behuizing
	
<b>Veer van de sensor</b> (zichtbaar als de sensor geopend is)	
<b>Duidelijke onderscheidende eigenschap:</b>	
2) Eén enkele wikkeling van de veer	2) Drie wikkelingen van de veer
Originele Nellcor Durasensor® (DS-100A)	Vervalste sensor !
	

# UN Convention against Transnational Organized Crime

Organized criminal group (3 or > persons)

Serious crime (>4 years of prison)

Structured group (not randomly formed..)

=> **The Medicrime Convention of the CoE**



# Definitions (confusion)

**Counterfeit Medicines (WHO & CoE)**

**Falsified Medicines (EU)**

**Fraudulent Medicines (UNODC)**



# Key messages:

- 1) involve the regulatory
- 2) laboratory analysis (OMCLs!)
- 3) sensibilisation campaigns
- 4) multidisciplinary & multisectoral (transborder) collaboration  
(DRA-Police-Customs)
- 5) legislation (definitions) & enforcement

→ **MEDICRIME CONVENTION**  
(Council of Europe)

# THANK YOU

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Head of Special Investigation Unit

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office: +32 (0) 2 524 82 81

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