

ITEM NUMBER		CHECKLIST		FONTS	
NAME	5005027R.INDD	N° BESINS	NA	APPROVALS Regulatory Approval	
REG SITE	5004946	ZONE D'EMBOSSAGE LIBRE	NA		
TYPE	LEAFLET	LISIBILITÉ CODE BARRE	NA		
DWG NR	531 297x210mm	CONFORMITÉ BRAILLE	NA		
# COLORS	501	POSITION SPOT	NA		
COUNTRY	MYS	ROUTING	NA	Regulatory Approval	
DATE	8-october-2020	DATE	NA		
ROUTING	1				
COLORS (QC tolerance: +/- 1 PMS LEVEL)					
	NAME	OPACITY		Marketing Approval	
#1	PANTONE Process Black U		VARNISH		Technical Approval
			BRAILLE		
			DIECUT		



5005027 NOT ANDROGEL 50MG 30SP MYS

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MedDRA System Organ Class	Adverse Reactions- preferred term Common adverse reactions (>1/100; <1/10)
Psychiatric disorders	Mood disorders
Nervous system disorders	Dizziness, paresthesia, amnesia, hyperaesthesia
Vascular disorders	Hypertension
Gastro-intestinal disorders	Diarrhoea
Skin and subcutaneous tissue disorders	Alopecia, urticaria
Reproductive system and breast disorders	Gynecomastia (which may be persistent, is a common finding in patients treated for hypogonadism) mastodynia, prostatic disorders
General disorders and administrative site conditions	Headache
Investigations	Changes in laboratory tests (polycythaemia, lipids), Haematocrit increased, Red blood cell count increased, Haemoglobin increased

Post-marketing experience
The following table includes adverse reactions identified during post-approval use of this medicine in addition to other known undesirable effects reported in the literature following testosterone oral, injectable or transdermal treatment:
Adverse effects have been ranked under headings of frequency using the following convention: very common (≥1/10); common (≥1/100; <1/10); uncommon (≥1/1,000;<1/100); rare (≥1/10,000;<1/1,000); very rare (<1/10,000); frequency not known (cannot be estimated from the available data).

MedDRA System Organ Class	Adverse reactions – preferred term			
	Frequency not known (cannot be estimated from the available data)	common (≥1/100; <1/10)	rare (≥1/10,000; <1/1,000)	very rare (<1/10,000)
Neoplasms benign, malignant and unspecified (including cysts and polyps)	Prostate cancer (Data on prostate cancer risk in association with testosterone therapy are inconclusive.)		Hepatic neoplasm	
Metabolism and nutrition disorders	Weight gain, electrolyte changes (retention of sodium, chloride, potassium, calcium, inorganic phosphate and water) during high dose and/or prolonged treatment			
Psychiatric disorders	Nervousness, depression, hostility			
Respiratory thoracic and mediastinal disorders	Sleep apnoea			
Hepatobiliary disorders				Jaundice
Skin and subcutaneous tissue disorders	acne, seborrhoea, balding			
Musculoskeletal and connective tissue disorders	Muscle cramps			
Renal and urinary disorders	urinary obstruction			
Reproductive system and breast disorders	Libido changes, increased frequency of erections; therapy with high doses of testosterone preparations commonly reversibly interrupts or reduces spermatogenesis, thereby reducing the size of the testicles; prostate abnormalities,		Priapism	
General disorders and administration site conditions	High dose or long- term administration of testosterone occasionally increases the occurrences of water retention and oedema; hypersensitivity reactions may occur. Because of the alcohol contained in the product, frequent applications to the skin may cause irritation and dry skin.			
Investigations		Haematocrit increased, haemoglobin increased, red blood cell count increased		liver function test abnormalities

Abuse-Related Adverse Reactions
Serious adverse reactions have been reported in individuals who abuse testosterone and anabolic androgenic steroids (AAS) and include cardiac arrest, myocardial infarction, hypertrophic cardiomyopathy, congestive heart failure, cerebrovascular accident, hepatotoxicity, and serious psychiatric manifestations, including major depression, mania, paranoia, psychosis, delusions, hallucinations, hostility and aggression.
The following adverse reactions have also been reported in men: transient ischemic attacks, convulsions, hypomania, irritability, dyslipidaemias, testicular atrophy, subfertility, and infertility.
The following additional adverse reactions have been reported in women: hirsutism, virilisation, deepening of voice, clitoral enlargement, breast atrophy, male-pattern baldness, and menstrual irregularities.
The following adverse reactions have been reported in male and female adolescents: premature closure of

bony epiphyses with termination of growth, and precocious puberty. Because these reactions are reported voluntarily from a population of uncertain size and may include abuse of other agents, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.
Reporting of suspected adverse reactions
Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system.
4.9 Overdose
Symptoms
Serum testosterone levels should be measured if clinical signs and symptoms indicative of overexposure to androgen are observed.
Application site rash has also been reported in case reports of overdose with this medicine.
Treatment
Treatment of overdosage consists of washing the application site immediately and discontinuing treatment if advised by the treating physician.
Chronic Overdose Caused by Abuse
Chronic overdose caused by abuse of testosterone and other anabolic androgenic steroids (AAS) can lead to serious adverse outcomes particularly cardiovascular and psychiatric dverse events (See Sections Warnings and Precautions and Adverse Effects/ Undesirable Effects).

5. PHARMACOLOGICAL PROPERTIES
5.1 Pharmacodynamic properties
Pharmacotherapeutic group: Androgens. ATC code: G03B A03.
Endogenous androgens, principally testosterone , secreted by the testes and its major metabolite DHT (dihydrosterone), are responsible for the development of the external and internal genital organs and for maintaining the secondary sexual characteristics (stimulating hair growth, deepening of the voice, development of the libido); for a general effect on protein anabolism; for development of skeletal muscle and body fat distribution; for a reduction in urinary nitrogen, sodium, potassium, chloride, phosphate and water excretion.
Testosterone does not produce testicular development: it reduces the pituitary secretion of gonadotropins. The effects of testosterone in some target organs arise after peripheral conversion of testosterone to oestradiol, which than binds to oestrogen receptors in the target cell nucleus e.g. the pituitary, fat, brain, bone and testicular Leydig cells.
5.2 Pharmacokinetic properties
The percutaneous absorption of testosterone ranges from approximately 9% to 14% of the applied dose.
Following percutaneous absorption, testosterone diffuses into the systemic circulation at relatively constant concentrations during the 24-hour cycle.
Serum testosterone concentrations increase from the first hour after an application, reaching steady state from day two. Daily changes in testosterone concentrations are then of similar amplitude to those observed during the circadian rhythm of endogenous testosterone. The percutaneous route therefore avoids the blood distribution peaks produced by injections. It does not produce supra- physio logical hepatic concentrations of the steroid in contrast to oral androgen therapy.
Administration of 5 g of this medicine produces an average testosterone concentration increase of approximately 2.5 ng/ml (8.7 nmol/l) in plasma.
When treatment is stopped, testosterone concentrations start decreasing approximately 24 hours after the last dose. Concentrations return to baseline approximately 72 to 96 hours after the final dose.
The major active metabolites of testosterone are dihydrotestosterone and oestradiol. Testosterone is excreted, mostly in urine, and in faeces as conjugated testosterone metabolites.
5.3 Preclinical safety data
Testosterone has been found to be non-mutagenic in vitro using the reverse mutation model (Ames test) or hamster ovary cells. A relationship between androgen treatment and certain cancers has been found in studies on laboratory animals. Experimental data in rats have shown increased incidences of prostate cancer after treatment with testosterone.
Sex hormones are known to facilitate the development of certain tumours induced by known carcinogenic agents. No correlation between these findings and the actual risk in human beings has been established.

6. PHARMACEUTICAL PARTICULARS
6.1 List of excipients
Carbomer 980, Isopropyl myristate, 96% Ethanol, Sodium hydroxide, Purified water
6.2 Incompatibilities
Not applicable.
6.3 Shelf life
36 months.
6.4 Special precautions for storage
Store below 30°C.
6.5 Nature and contents of container
2.5 g in sachet (PET/Aluminium/PE)
5.0 g in sachet (PET/Aluminium/PE)
Boxes of 1, 2, 7, 10, 14, 28, 30, 50, 60, 90 or 100 sachets. Not all the pack sizes may be marketed.
6.6 Instructions for use.
No special requirements.

7. PRODUCT OWNER
Laboratoires Besins International
13 Rue Perier Montrouge 92120 France

8. IMPORTER
Product registration holder
BREGO LIFE SCIENCES SDN. BHD
12-M, Jalan SS21/58 Damansara Utama 47400 Petaling Jaya Selangor, Malaysia

9. MANUFACTURER
Delpharm Drogenbos SA
Groot-Bijgaardenstraat 128,
1620 Drogenbos, Belgium

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