

Immunocal has been tested as part of ConsumerLab.com's Athletic Banned Substance Screening Program which screens for over 170 substances (including metabolites) based on the 2007 World Anti-Doping Code Prohibited List and has been certified free of any prohibited substances. The screening includes testing for stimulants, narcotics, anabolic agents, diuretics, masking agents and beta blockers based on the Olympic Movement Anti-Doping Code or the codes of other sports organizations. To view Immunocal on ConsumerLab.com's website, visit <http://www.consumerlab.com/results/bannedsub.asp>.

For purposes of this testing, ConsumerLab.com acquired product through an independent representative, ensuring that product tested was randomly selected from a specific lot. Lot number for the testing was A3030731 L, with an expiry date of 2009. To pass, a product must contain no confirmed Banned Substance at a "zero-tolerance level". ConsumerLab.com reserves the right to disqualify a product at any time from passing its testing if it considers such product to present a safety risk or to provide misleading or inaccurate information.

Athletes have long included Immunocal in their training regimens based on its scientific validation. Studies such as that by Dr. Larry Lands on the "Effect of supplementation with a cysteine donor on muscular performance" show that Immunocal can be an effective part of the athlete's nutritional supplementation. An abstract of the study is available at [jap.physiology.org](http://jap.physiology.org).

President and Chief Executive Officer, Jim Northrop underlines that this latest substantiation of Immunocal's safety reinforces Immunotec's commitment to providing the public with the highest integrity nutritional supplementation available.

Immunocal has numerous North American and international patents, is listed in the Physicians' Desk Reference, the Pharmacist's Red Book and is approved for Medicare/Medicaid coverage in the U.S. Immunocal/HMS 90 has regulatory approval and a Natural Product Number from Health Canada as a natural source of the glutathione precursor cysteine for the maintenance of a strong immune system.



Be Sure It's CL Approved

ConsumerLab.com, LLC  
Research Office: 1234 Rock Hill Road • Pasadena, MD 21122  
Phone 410-437-9134 • Fax 410-437-9184  
e-mail: research@consumerlab.com  
Website: www.consumerlab.com

## Athletic Banned Substances Screening Program Results

### Product Reviewed:

#### 1. Immunocal® Nutraceutical Bonded Cysteine

---

<b>1. Brand Name</b>	<b>Immunocal® Nutraceutical Bonded Cysteine</b>
Manufacturer/ Distributor	Dist. by Immunotec Research Inc
Servings per Container	30 pouches
Lot Number	A3030731L
Expiration Date	3/2009

#### **A.) Analytical Findings**                      **Overall Testing: Pass**

Serving size= 1 pouch (0.35 oz/10 g)  
Density = 1.004 g/mL

I.	<u>Banned Substances</u>	<u>Pass</u>
	Beta-Blockers	None detected
	Diuretics	None detected
	Narcotics	None detected
	Anabolic Steroids	None detected
	Stimulants	None detected
	Masking Agents	None detected
	Other substances	None detected

---

## Banned Substances:

Testing covers banned substances (parent drug and metabolites) representing the 2007 World Anti-Doping Agency (WADA) Prohibited List, consisting of over 170 substances. The substances tested are from the following 6 categories and are those that can be tested in supplements (limited in comparison to what can be tested for in blood and/or urine).

- Stimulants and related compounds
- Narcotics and related substances
- Anabolic agents and related substances
- Diuretics and related substances
- Masking agents and related substances
- Beta Blockers and related substances

### Testing Method:

Screening involves one or more appropriate analytical methods, e.g., HPLC and GC, and includes spiking and recovery of certain compounds to insure proper extraction. Confirmation of any detected banned substance is made by mass spectroscopy.

### Passing Score: \*

To pass, a product must contain no confirmed Banned Substance at a "zero-tolerance level" — defined by the recovery rate of a substance as well as its limit of detection in a given matrix.

\* Passing scores allow for specific margins of technical error associated with each analysis. ConsumerLab.com reserves the right to disqualify a product at any time from passing its testing if it considers such product to present a safety risk or to provide misleading or inaccurate information in its labeling.

## APPENDIX A:

*Banned Substances Tested for by ConsumerLab:*

### STIMULANTS AND RELATED COMPOUNDS

Amineptine<sup>†</sup>  
Amfepramone  
Amphetamine  
Bambuterol  
Benzphetamine  
Cathine/Nor-pseudoephedrine  
Cocaine  
Diethylpropion<sup>†</sup>  
Dimethylamphetamine  
Ephedrine  
Etilamphetamine  
Fencamfamin  
Fenfluramine  
Fenproporex  
*p*-Hydroxyamphetamine  
Morazone  
Mefenorex

### NARCOTICS AND RELATED SUBSTANCES

Alphaprodine  
Buprenorphine  
Codeine  
Diamorphine (heroin)

Methamphetamine  
*p*-Methoxyamphetamine  
Methylenedioxyamphetamine  
Methylephedrine  
Methylphenidate  
Nikethamide<sup>†</sup>  
Norfenfluramine  
Pemoline  
Phenmetrazine  
Phendimetrazine  
Phentermine  
Phenylephrine  
Phenylpropanolamine  
Pholedrine  
Pseudoephedrine  
Selegiline  
Strychnine  
Terbutaline

Dihydrocodeine  
Hydrocodone  
Hydromorphone  
Levorphanol  
Meperidine†  
Methadone†  
Morphine  
Nalbuphine  
Oxycodone (oxycotin)  
Oxymorphone  
Pentazocine  
Propoxyphene†  
Tetrahydrocannabinol (THC)

ANABOLIC AGENTS AND RELATED  
SUBSTANCES

Androstenediol  
Androstenedione  
Bambuterol  
Boldenone  
Clenbuterol  
Clostebol  
Danazol  
Dehydrochlormethyltestosterone  
Dehydroepiandrosterone (DHEA)  
Dihydrotestosterone  
Drostanolone  
Fenoterol  
Fluoxymesterone  
Formebolone  
Formoterol  
Gestrinone  
Mesterolone  
Metandienone  
Metenolone  
Methandriol  
Methyltestosterone  
Mibolerone  
Nandrolone  
19-norandrostenediol  
19-norandrostenedione  
Norethandrolone  
Oxandrolone  
Oxymesterone  
Trichlormethazide/Trichloromethiazide

MASKING AGENTS AND RELATED SUBSTANCES

Diuretics (see above)  
Epitestosterone  
Probenecid

BETA BLOCKERS AND RELATED SUBSTANCES

Acebutolol†  
Alprenolol†  
Atenolol†  
Bunitolol  
Labetalol  
Metoprolol†  
Nadolol  
Oxprenolol†  
Pindolol  
Propranolol†  
Sotalol  
Timolol

† Indicates metabolites screened in addition to parent drug.

Oxymetholone  
Reproterol  
Salbutamol  
Sameterol  
Stanozolol  
Terbutaline  
Testosterone  
Trenbolone

DIURETICS AND RELATED SUBSTANCES

Amiloride  
Acetazolamide  
Bendroflumethiazide  
Benzthiazide  
Bumetanide  
Canrenone  
Chlorothiazide  
Chlorthalidone  
Cyclothiazide  
Dichlorphenamide  
Ethacrynic acid  
Furosemide  
Hydrochlorothiazide  
Metolazone  
Methclothiazide  
Polythiazide  
Quinethazone  
Spironolactone  
Triamterene