



**HD** MEDICAL



## **BACKGROUND**

HD Medical has been a worldwide wholesale supplier of high-purity, high-quality natural green tea products since its founding in 1984. The privately held company has facilities in China and Denmark. It has been a research pioneer in the development and processing of high-quality green tea extracts and has developed proprietary technology exclusively by water extraction and spray-dried into powder without any solvent residue.

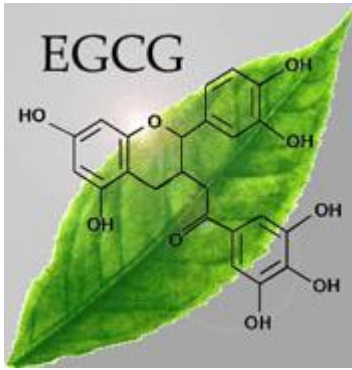
All HD Medical botanical extracts are produced in a sterile, closed system. This affords the highest quality of natural plant extracts with no impurities or bacterial contamination. No phosphorous or arsenic residues are present.

To further assist our customers, HD Medical offers support that includes service application laboratory. Our experienced technical team is actively involved in quality control and addressing customers' requests and inquiries.

For our green tea cultivation we do enjoy a superior geographical environment in China, at one of the best-appointed pollution free mountain regions.



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**DOCUMENTATION**

Please notice that “HPLC chromatogram” and “Certificate of analysis including pesticides report” are our standard documentation. Additional confidential documents such as “MSDS (Material Safety Data Sheet)”, “Flow chart without solvent residue” and “Analytical method by HPLC” can be required when becoming reliable customers.

Example of HPLC chromatogram and certificate of analysis, incl. pesticides report :

HPLC Chromatogram of Green Tea Polyphenols (GTP-60)  
Total Catechins 61.541% Batch No. GTP-090101

**Certificate of analysis**

Product name: Green Tea Catechins 60% (GTP 60)  
Batch number: GTP-090101  
Expiry date: January 2011

| Items               | Specification      | Test results | Remark        |
|---------------------|--------------------|--------------|---------------|
| Appearance:         | Fine yellow powder | Conforms     |               |
| Sieve analysis:     | Pass 50 mesh       | Conforms     |               |
| Part Used:          | Green Tea Leaves   | Conforms     |               |
| Bulk density:       | 40-45g/ 100 ml     | 43g/100 ml   | Density meter |
| Moisture:           | <5.0%              | 2.83%        | 5g/105°C/2h   |
| Extract solvent:    | Water              | O.K.         |               |
| Carriers used:      | None               | O.K.         |               |
| Tea polyphenols:    | >80%               | 82.625%      | UV-VIS        |
| Tea catechins:      | >60%               | 61.541%      | HPLC          |
| EGC:                |                    | 7.010%       | HPLC          |
| DL-C:               |                    | 1.753%       | HPLC          |
| EC:                 |                    | 5.754%       | HPLC          |
| EGCG:               |                    | 36.707%      | HPLC          |
| GCG:                |                    | 1.536%       | HPLC          |
| ECg:                |                    | 8.781%       | HPLC          |
| Caffeine:           | <10%               | 9.202%       | HPLC          |
| Ash:                | <7%                | 3.48%        | 2g/525°C/3h   |
| Heavy metals:       | <10ppm             | Conforms     | AA            |
| Solvent residue:    | <10ppm             | Absent       | GC            |
| Total bacteria:     | <1,000cfu/g        | Conforms     |               |
| E. Coli:            | Negative           | Conforms     |               |
| Salmonella:         | Negative           | Conforms     |               |
| Staphylococcus:     | Negative           | Conforms     |               |
| Mold:               | <100cfu/g          | Conforms     |               |
| Yeast:              | <100cfu/g          | Conforms     |               |
| Pesticides residue: | <0.1ppm            | O.K.         | GC            |

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## **HD MEDICAL PRODUCTS**

### **Camelia Sinensis Natural Green Tea.**

The following green tea extracts standardized on catechins have found broad international applications in the pharmaceutical, food, healthcare, and cosmetics industries. Specific uses include nutritional supplements, food additives, anti-aging skin care preparations, and sun care products. GTP products also show promise as anti-carries agents in toothpaste.

#### Personal Consumer Products

The following product line provides a superior source of flavonoids – catechins, presently the most effective antibacterial, antioxidants and which also significantly lower the blood pressure.

#### Instant Green Tea Powder

This spray-dried, water soluble powder granulate is derived purely by water extraction as all our products. It contains more than 30% Catechins and more than 15% EGCG and is free of solvent residue and pesticides. 1 teaspoon of the green tea powder diluted in hot water is recommended at a rate of four - six cups per day for adults.

#### Green Tea Extract pure for capsulation (new product)

This spray dried powder, also derived purely by water extraction, contain >95% Polyphenols/ >70% EGCG and is also free of solvent residue and pesticides. Intended for capsulation for those who do not like the astringent taste of green tea or who finds tea preparation inconvenient. They should be taken at an adult dosage of two 350 mg capsules per day.



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### Catechin Concentrates

(Green Tea Polyphenols numbers represent the minimum percentage catechin concentrations.)

GTP 40

GTP 60

GTP 80

GTP 80 decaffeinated

GTP 90

### Theophylline Concentrates

The following natural green tea extracts standardized on theophylline are also active ingredients in cosmetics and skin care products. They have been incorporated in alpha hydroxy acid preparations to reduce unwanted side effects such as puffiness. There are currently profile-enhancing cosmetics on the market containing theophylline as the active ingredient.

(The numbers represent the minimum percentage theophylline concentrations.)

GTE 80T

GTE 95T

HD MEDICAL INTRODUCES THE FINEST NATURAL ANTI-MICROBIAL PRESERVATIVE,  
"NAM P" FOR COSMETICS AND PERSONAL CARE PRODUCTS (new product)

Brief description and quality guarantee of NAM P:

- NAM-P is of lighter colour



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- has very high potential effect as anti-microbial preservative possessing the greatest activity on most bacteria such as Gram-positive, Gram-negative, *Aspergillus niger*, *Candida albicans*, *Burkholderia cepacia* (formerly *Pseudomonas cepacia* PC), *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Escherichia coli*, Mold, Fungus, Yeast etc.
  - has excellent anti-oxidative properties
  - has a very good anti-virus and anti-inflammation influence
  - has a very diminished toxicity (LD 50) > 10mg/kg
  - is very successful in water solution and always very successful in water in oil environment as well as in oil in water application.

NAM P successful test results show incomparable anti-microbial activities, preservation and antioxidative properties. Moreover, NAM P is compatible with virtually all cosmetic ingredients including the most complex preparations. As a result it can be incorporated into all varieties of cosmetics and personal care formulations for safety and reliable preservation, and it has been found to preserve cosmetics and personal care formulations at levels as low as 0.05 %. NAM P is typically in most creams and lotions effective at concentrations of 0.08% - 0.3% and even higher level for complex formulations.



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## **CONTACT DETAILS**

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