



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 extraction technology. We solely use water for extraction and spray-dry into powder without any solvent residue.

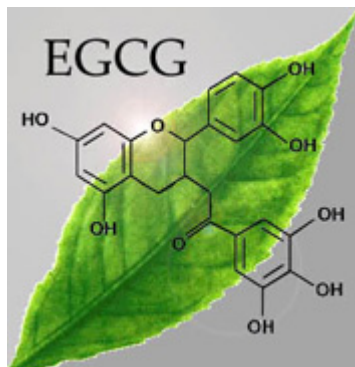
All HD Medical botanical extracts are produced in a sterile, closed system. This affords the highest quality of natural plant extracts with no impurities or bacterial contamination. No phosphorous or arsenic residues are present.

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 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 requested by our 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
FCg		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 Care Products

The following product line provides a superior source of flavonoids – catechins, which have excellent antibacterial, antioxidant, and blood pressure lowering properties.

Instant Green Tea Powder

This spray-dried, water soluble powder granulate is derived purely by water extraction as do all our products. It contains more than 30% Catechins and more than 15% EGCg and is free of solvent residue and pesticides. One 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 free of solvent residue and pesticides. It is intended for capsulation for those who do not like the astringent taste of green tea or who find 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 by weight.)

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 by weight.)

GTE 80T

GTE 95T

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

Brief description and quality guarantee of AM P:

- AM P is of lighter color
- 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.



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AM P test results show incomparable anti-microbial activities, preservation and antioxidative properties. Moreover, AM 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 has been found to preserve cosmetics and personal care formulations at levels as low as 0.05 %. AM P is typically effective in most creams and lotions at concentrations of 0.05% - 0.2%.



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