



Golden Horizon
Biologics

Golden Horizon (Chengdu) Technology Co.,Ltd.

Technical Data sheet



Product Name: Tomato Extract

Active Ingredient: Lycopene

Specification: 10%

Appearance: Dark red fine powder

Test method: HPLC



Lycopene is a powerful antioxidant. It makes tomatoes red. It is soluble in oils and insoluble in water. Lycopene is easily absorbed by the organism and is naturally present in human plasma and tissues in higher concentrations than the other carotenoids. Tomatoes contain a variety of antioxidants such as the two carotenoids Lycopene and Beta Carotene, Vitamin C and Vitamin E, polyphenolics such as Kaempferol and quercetin. Lycopene is the most abundant one in red tomatoes.

Lycopene is a powerful antioxidant. No doubt, antioxidants also interact with other substances and molecules, producing a synergistic effect that protects human metabolism. So, processed tomatoes are likely to offer more protection than Lycopene on its own.

Health benefits:

- 1) Helping to improve sperm quality, reduce the risk of infertility
- 2) Protection of the cardiovascular;
- 3) Anti-ultraviolet radiation;
- 4) Suppression mutagenesis;
- 5) Anti-aging and enhancing immunity;
- 6) Improving skin allergies;
- 7) Improving a variety of body tissues;
- 8) With a strong hangover effect;
- 9) With the prevention of osteoporosis, lower blood pressure, reducing the exercise induced asthma, and other physiological functions;
- 10) Preventing and improving prostatic hyperplasia; prostatitis and other urological diseases.

Application:

- 1) Applied in food field, lycopene is mainly used as food additives for colorant and health care;
- 2) Applied in cosmetic field, lycopene is mainly used to whitening, anti-wrinkle and UV protection;
- 3) Applied in pharmaceutical field, lycopene is made into capsule.



Technical specification:

Product Name	Tomato Extract
Part used	Fruit
ANALYSIS	SPECIFICATION
Assay	Lycopene $\geq 10.0\%$
Appearance	Dark Red Fine Powder
Odor	Characteristic
Loss on drying	$\leq 8.0\%$
Ash	$\leq 5.0\%$
Total Heavy Metal	$\leq 10\text{ppm}$
Arsenic(As)	$\leq 1.0\text{ppm}$
Lead (Pb)	$\leq 3.0\text{ppm}$
Cadmium (Cd)	$\leq 1.0\text{ppm}$
Mercury (Hg)	$\leq 0.1\text{ppm}$
Solubility	Water soluble
Microbiological	
Total plate count	$\leq 1000\text{cfu/g}$
Fungi and yeast	$\leq 100\text{cfu/g}$
Escherichia coli	$\leq 30\text{ MPN/100g}$
Salmonella	Negative
Staphylococcus aureus	Negative

Packaging Details:

Package: 25kgs/fiber drum, inner with double-layer plastic bags.

Storage: Store in cool & dry place, keep away from strong light and heat.

After opening, please use it immediately; if not, please pack it in vacuum.



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