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**Product name**

Angel Yeast Extract FP103

**Definition**

Angel yeast extract FP103 is a kind of powder product which is obtained by autolysis of high-protein primary grown *Saccharomyces cerevisiae* yeasts.

**Description**

Light beige to yellow, powder form, soluble in water.

Rich in small Peptides, balanced Proteins, Amino acids, Vitamins, Nucleotides, Trace elements.

**Application**

As a kind of nitrogen source in culture media, can be widely used in below applications:

Laboratory culture media.

Replacement of animal or vegetable origin peptone.

Industry fermentation such as Probiotics, PUFA, Nucleoside, Biopharmaceuticals, etc.

**Certification**

Kosher, Halal, ISO9001, ISO14001, ISO22000, Sedex, BRC, CNAS

**Physical-chemical characteristics**

Item	Data
Solubility (%)	0-2%, Totally soluble in water
pH (2%)	5.3-7.2
Moisture (%)	≤6.0%
Total nitrogen (Dry matter, %)	≥12.5%
Amino nitrogen (Dry matter, %)	≥2.5%
Ash (%)	≤15.0%
NaCl (%)	≤2.0%

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**Angel Yeast Co., Ltd.**

Address: 168 Chengdong Avenue, Yichang, Hubei 443003, China. 443003

Tel: +86-717-6369227 Fax: +86-717-6368757 Contact person: Mr. Johnny Yin

E-mail: [yinqiang@angelyeast.com](mailto:yinqiang@angelyeast.com) web site: <http://en.angelyeast.com>

**Microbiological characteristics**

Item	Data
Aerobic Count (cfu/g)	≤50000
Coliforms (MPN/g)	≤0.3
Salmonella	Negative/25g
Staphylococcus aureus	Negative/25g
Shigella	Negative/25g

**Heavy metals**

Item	Data
Lead (mg/kg)	≤1.0mg/kg
Arsenic (mg/kg)	≤0.5mg/kg
Mercury (mg/kg)	≤0.5 mg/kg

**Average vitamin composition (For reference only)**

Item	Data (mg / kg)
VB <sub>1</sub>	2.6
VB <sub>2</sub>	10.1
VB <sub>5</sub>	35
VB <sub>6</sub>	14.5
VB <sub>7</sub>	4.87
VB <sub>9</sub>	60.6
VB <sub>12</sub> (ug/100g)	0.18
Choline	404
Inositol	410.6
Nicotinic acid	299

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**Minerals** (For reference only)

Item	Data (mg / kg)
K	28387
Na	2489
Ca	867
Mg	1736
Zn	52
Fe	29

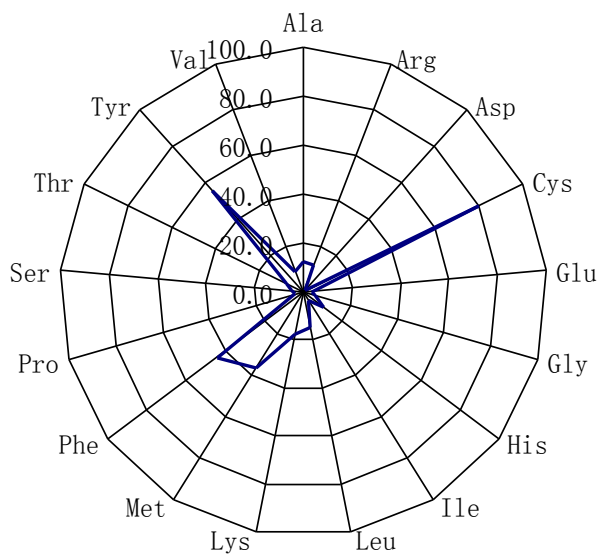
**Amino acid composition** (For reference only)

Amino acids	Free amino acids (%)	Total amino acids (%)
Ala	0.8	6.3
Arg	0.6	5.0
Asp	0.1	9.0
Cys	0.8	1.0
Glu	0.4	12.4
Gly	0.2	3.9
His	0.2	1.9
Ile	0.1	2.3
Leu	0.9	6.3
Lys	1.2	7.0
Met	0.4	1.1
Phe	1.5	3.4
Pro	0.1	3.0
Ser	0.2	4.2
Thr	0.3	4.1
Tyr	3.3	5.9
Val	0.4	4.4
Total	11.5	81.2

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Free Amino acids / Total Amino acids  $\times 100$



**Molecular weight distribution** (For reference only)

Range / Da	%
>2000	0.03
2000-1000	2.23
1000-400	40.64
400-180	49.20
<180	7.90

**Packaging and Storage**

Packaging: 20KG/BAG Sealed kraft paper bag with PE liner

Store condition: Stored in cool and dry place    Shelf life: 24 months

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