

#### I -4. Production Situation of $\beta$ -Carotene Nowadays

There are 5  $\beta$  -carotene producers at present. 3 out of them adopt the synthetic method and the other two adopt extraction and fermentation, respectively.

Table I -4-1 Details of  $\beta$  -carotene manufacturers

No.	Abbr.	Status	Location	Launch time	Production method	Raw material	Technique source	Specification	Output'04 (kg)	Capacity'05 (kg)	Future subject
II-1	[REDACTED]	Active	[REDACTED]	2002	Synthesis	N/A	Captive	[REDACTED]	[REDACTED]	[REDACTED]	No
II-2	[REDACTED]	Active	[REDACTED]	2003	Synthesis	VA	Captive	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
II-3	[REDACTED]	Active	[REDACTED]	2001	Fermentation	Blakeslea trispora	Wuhan Institute of Virology	[REDACTED]	[REDACTED]	[REDACTED]	No
II-4	[REDACTED]	Active	[REDACTED]	1991	Extraction	Du's Saline Algae	N/A	[REDACTED]	[REDACTED]	[REDACTED]	No
II-5	[REDACTED]	Active	[REDACTED]	N/V	Synthesis	N/A	N/A	[REDACTED]	[REDACTED]	[REDACTED]	No
<b>Total</b>	-	-	-	-	-	-	-	-	[REDACTED]	[REDACTED]	-

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