

< >

430

# Specialty

“ ”

amin( )  
13  
가  
A · D · E · K가  
C B

가 Vita( )

Pyridoxine, -carotene

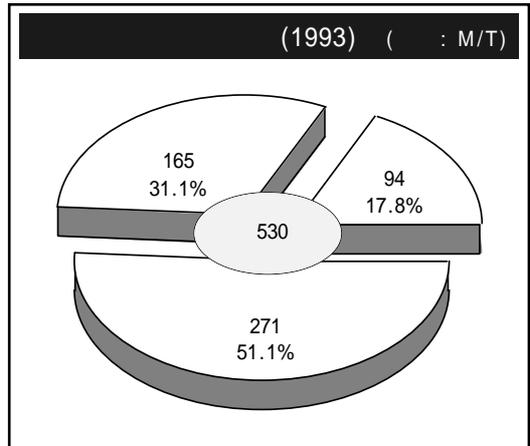
9

D , K

Biotin

가

1 (23 ~ 50 )			
Thiamin(B <sub>1</sub> )	1.0 1.4mg	Vitamin A	800.0 1000.0µg
Riboflavin(B <sub>2</sub> )	1.2 1.6mg	Vitamin D	5.0 µg
Nicotinic acid(B <sub>3</sub> )	13.0 18.0mg	Tocopherol (E)	8.0 10.0mg
Pyridoxine(B <sub>6</sub> )	2.0 2.2mg	Vitamin K	70.0 140.0mg
Pantothenic acid(B <sub>5</sub> )	4.0 7.0mg		
Folic acid(B <sub>9</sub> )	400.0mg		
Biotin(H)	100.0 200.0mg		
Ascorbic acid(C)	60.0mg		
Cobalamin(B <sub>12</sub> )	3.0 µg		



가

가

가

가

Roche

Rhone-Poulenc, BASF,

Takeda, Eisai

가

가

가

Biotin

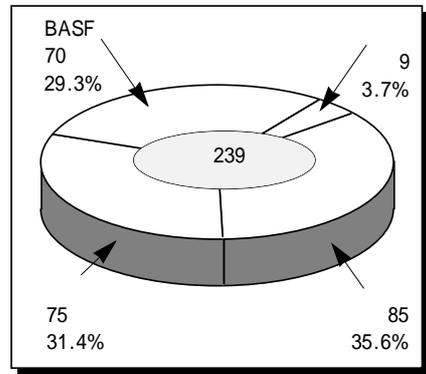
가

가

Specialty

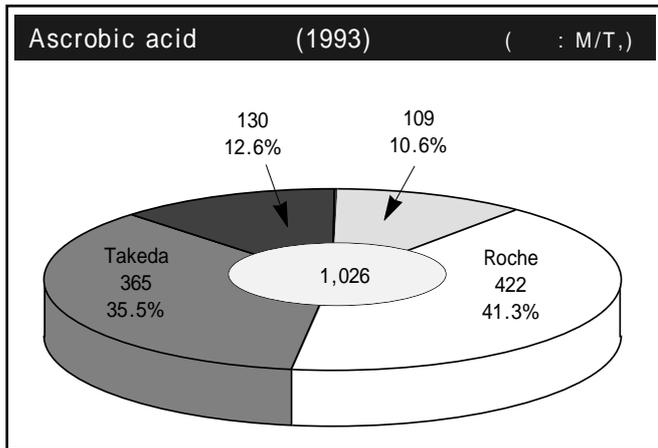
가 가  
 가 가  
 50%  
 93 2796 , 5279 92 2580 , 4768  
 8%, 11% 가  
 가 가  
 1~2 가  
 1614 , 2747 58%, 52%  
 647 , 1903 36%, 535 , 629 12%

( : M/T, 1000 , %)					
	1992		1993		
-Carotene	2	128	3	253	50.0
Vitamin A	48	1,705	49	1,970	15.5
B1	49	2,535	44	2,114	16.6
B2	78	4,814	67	4,241	11.9
Pantothenic acid	150	2,858	149	3,267	14.3
B6	37	2,439	39	2,205	9.6
B12	2	921	1	963	4.6
Ascorbic acid	871	11,985	1,020	14,877	24.1
Sodium Ascorbate	66	967	75	1,148	18.7
Calcium Ascorbate	2	28	2	35	25.0
Tocopherol	411	11,180	401	11,705	4.7
B9	4	516	5	539	4.5
D	11	555	13	755	36.0
H	4	367	4	249	32.2
K	34	776	37	865	11.5
Nicotinamide	652	927	697	1,206	30.1
	162	4,980	184	6,398	28.5
	2,580	47,681	2,796	52,790	10.7



530 , 1663 31.5%  
 1026 36.8%, 1512 28.6%  
 Riboflavin( B2) 67 , 424 8.0%, Pantothenic Acid 149 , 327 6.2%  
 93 530 , 1663 92 505 , 1460 5%  
 13.9% 가  
 가 가  
 가 가  
 271 51.1%, 763 45.8%  
 165 , 252 31.1%, 15.1% 94 , 648  
 17.7%, 38.9% 가  
 , Takeda, Eisai 168 31.6%

Roche가 138 26.0%  
 BASF가 95 17.9%, Henkel 79 , Rhone-Poulenc 10  
 가 가  
 가 Kg 35~36 46  
 1 , 2~3 가  
 93 2800 - 5300  
 8가  
 -, -, -, - 가 E  
 93 102 6 , 1512 92 871 , 1199  
 가 가  
 17.7%, 26.1% 가  
 836 56% 가  
 316 , 488 , 101 , 163  
 , Roche가 422 41.3% Takeda  
 365 35.5% 가, 130 12.6% 92  
 40 225% 가  
 가 Kg 15~16



가 가  
 R iboflabin( B2)  
 67 , 424  
 8%  
 48 , 252  
 71.6%, 59.4%  
 11 , 120  
 28.3%,

12.3% 11 ( 120 )  
 Takeda가 41 61.2%  
 23 34.3%, Rhone-Poulenc 200Kg  
 B2 FMN, FAD  
 가  
 B2  
 Nicotinamide 733 , 202 26.3%, 3.9% 689  
 94.0%, 82 40.6%  
 가 가  
 가

B iotin( B9) 3 , 11  
 20% 가  
 80% , 20%

Roche Takeda 50%

C 100% 1500Kg, 8

가 Roche, BASF, Rhone-Poulenc 가

가

, B1, B6 ,

1600 , 2700 50%

가 93 1614 , 2747 58%,

52% 92 1422 , 2636 13.5%, 4.2% 가

가 가

A가 93 239 , 792 28.8% 92

256 , 800 6.6%, 1.0%

, Roche 85 Rhone-Poulenc 75 , BASF 70

271 , 763 27.8% 가 Kg 32

Roche가 100 , BASF 70 , Rhone-Poulenc 70 Rhone-Poulenc

48 , 252 9.2%, 136 , 227 8.2%

100 , 163 5.9%

A, E

가 92 1 가 15

20~30% 2~3 5%

5% 2~3% 가

(1993) ( : Kg, %)			
-Carotene	3,030	212,400	0.7
A	238,505	7,923,803	28.9
B1	13,185	410,907	1.5
B2	48,415	2,520,449	9.2
D-, DL-Pantothenic acid	136,775	2,269,480	8.2
B6	12,340	536,938	1.9
B12	39,379	1,160,687	4.3
C	100,825	1,632,624	5.9
Sodium Ascorbate	850	13,625	0.2
Calcium Ascorbate	200	3200	0.1
Tocopherol	271,350	7,631,675	27.8
B9	5,205	528,100	1.9
D	34,971	156,867	0.5
H	9,875	720,925	2.6
K	35,227	757,895	2.7
Nicotinamide	648,860	823,780	3
	15,370	164,110	0.6
	1,614,362	27,467,467	100.0

(1993) ( : Kg, %)			
-Carotene	260	92,343	0.5
Vitamin A	4,216	214,229	1.1
B1	23,677	1,283,949	6.7
B2	10,758	1,199,483	6.3
D-, DL-Pantothenic acid	16,709	376,336	2.0
B6	18,526	1,214,160	6.4
B12	1,056	756,578	3.9
Ascorbic acid	315,876	4,882,984	25.7
Sodium Ascorbate	18,901	287,315	1.5
Calcium Ascorbate	1,126	22,044	0.1
Tocopherol	94,299	6,479,756	34.1
B9	8,840	288,468	1.5
D	35,912	1,040,781	5.5
Biotin	173	110,147	0.6
K	30	56,130	0.3
Nicotinamide	92,111	601,274	3.2
	4,486	121,625	0.6
	646,955	19,027,558	100.0

가

647

23%,

629 5

36%

가

94 , 648

34.1%

316 , 488

25.7%

B1 24 , 128

6.7%, B6 19 ,

121 , B2 11 , 120

가

가

가

가 가

가

5%

5~8%,

가

10%

가

가

50%

가

2~3%

5~8%

5%

가

가

가

BASF

Rhone-Poulenc

C

가

Roche

Rhone-Poulenc, BASF, Takeda

가

1~2%

GNP

2~3

가

가

가

가

<

1994/9/5>