

CALMATI-201



Calmati-201 is an early maturing basmati type long grain released in 1999. It is the first basmati type adapted to California. Its pedigree is: 85H3942//L-202/Dehraduni/3/83-Y-45/PI457918.

U.S. MARKET TYPE:

AROMATIC LONG GRAIN 2000 2001 2002

Grain Dimensions (Paddy)

Average Length (mm)	9.65	9.70	9.57
Average Width (mm)	2.34	2.34	2.41
L/W Ratio	4.1	4.1	4.0

Grain Dimensions (Brown)

Average Length (mm)	7.34	7.25	7.29
Average Width (mm)	2.17	2.09	2.27
L/W Ratio	3.4	3.5	3.2
1000 Grain Weight (g)	20.8	20.3	21.2

Grain Dimensions (Milled)

Average Length (mm)	6.80	6.76	6.80
Average Width (mm)	2.07	2.10	2.11
L/W Ratio	3.3	3.2	3.2
% Apparent Amylose	23.3	23.2	23.5

Protein (%)

Brown	9.6	10.5	7.1
Milled	9.2	9.7	6.8

Alkali Spreading Value (1.5%KOH)	3.9	3.9	3.3
Alkali Spreading Value (1.7%KOH)	5.6	4.7	4.0
Cooking Time (min)	17.5	19.4	19.5
acetyl-1-pyrroline (ppb)	1388	1269	1153
Elongation Ratio	2.34	2.36	1.98

Differential Scanning Calorimetry

Gelatinization Temperature (°C)	73.1	74.6	75.2
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QUALITY TYPE:

BASMATI 2000 2001 2002

Rapid Visco Analyzer

AACC Method:

Peak	.203	.197	.218
Hot Paste	.134	.131	.139
Cool Paste	.263	.301	.274
Setback	.60	.104	.56
Consistency	.104	.170	.135
Breakdown	.95	.66	.79
Pasting Temperature (°C)	77.7	82.7	78.9

Japanese Method:

Peak	.238	.229	.216
Hot Paste	.151	.135	.118
Cool Paste	.286	.328	.253
Setback	.48	.100	.38
Consistency	.135	.193	.135
Breakdown	.87	.94	.98
Pasting Temperature (°C)	76.9	85.3	78.7

Controlled Stress Rheometer (Pa.s)

Peak	.027	.035	.036
Hot Paste	.020	.026	.024
Cool Paste	.036	.044	.047
Setback	.009	.010	.011
Consistency	.016	.018	.023
Breakdown	.006	.009	.012
Pasting Temperature (°C)	73.4	74.0	73.8



PADDY



BROWN



MILLED

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