

Satarbai

Accession Number

145

Origin

Khulm District of Balkh Province

Growing Regions

Currently grown in Balkh, Samangan and Kunduz Provinces.

Flowering Time

Balkh - Fourth week of February

Harvest Time

Balkh – Mid July

Market Potential

This is one of the premiere export varieties for markets wanting whole kernels for direct consumption. It has a strong market demand in India and Middle East. India primarily buys top quality in-shell. Bitters do not occur with the Satarbai nut, giving this nut extra value.

Quantitative characteristics

Nut is 73% of the shell weight

Nut Size

Medium length, very narrow and very thin means overall weight of the nut is very light.

Kernel Size

Kernel size is long, but very narrow and thin. The weight is light.

Shell Hardiness

The shell of the nut very soft.

Keel Development

The keel is weak

Shell Color

The color of the shell is light.

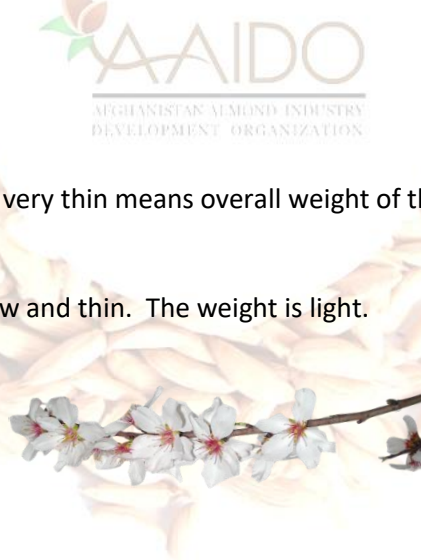
Kernel Color

The color of the kernel is cream.



Physical Size

	Kernel	Nut
Length (mm)	28.1	36.1
Width (mm)	9.2	12.4
Thickness (mm)	7.0	9.6
Weight (gm)	0.9	1.3
Count per kg	1,111	769



Satarbai, Clone#168

S.No.	PARAMETERS	TEST RESULTS	TEST METHOD	% Daily Value*
1	Total sugar, % by mass	4.75	IS:6287-1985 (Reaff.2005)	-
2	Carbohydrates, % by mass	20.49	By difference	7
3	Total fat, % by mass	54.05	IS: 4684-1975 (Reaff.2005)	83
4	Protein (N x 5. 18), % by mass	17.47	IS: 7219-1973 Reaff.2005)	35
5	Vitamin A, IU/100g	Not Detected (Detection Limit-1 mg/kg)	LAB_P_SOP_80 / HPLC	0
6	Vitamin C, mg/100g	Nil	IS: 5838-1970 (Reaff.2005)	0
7	Vitamin D, IU/100g	Not Detected (Detection Limit-1 mg/kg)	LAB_P_SOP_79 / HPLC	0
8	Vitamin E, IU/100g	28.31	LAB_P_SOP_80 / HPLC	94
9	Energy, kCal/100g	638.29	By Calculation	-
10	Calcium as Ca, mg/100g	219.08	IS: 13433 (P-1) – 1992	22
11	Sodium as Na, mg/100g	26.75	AOAC 966. 16, 18 th Edition	1
12	Cholesterol, mg/100g	Not Detected (Detection Limit-1 mg/kg)	AOAC 976. 26, 18 th Edition	0
13	Trans fat, % by mass	Not Detected (Detection Limit-1 mg/kg)	AOAC 966. 06, 18 th Edition	-
14	Saturated fat, % by mass	4.96	AOAC 966. 06, 18 th Edition	25
15	Polyunsaturated fat, % by mass	13.80	AOAC 966. 06, 18 th Edition	-
16	Monounsaturated fat, % by mass	35.30	AOAC 966. 06, 18 th Edition	-
17	Omega 3 Fatty Acids, % by mass	Not Detected (Detection Limit-1 mg/kg)	AOAC 966. 06, 18 th Edition	-
18	Total dietary fiber, % by mass	11.95	AOAC 985. 29, 18 th Edition	48
19	Iron as Fe, mg/100g	4.61	AOAC 999. 1, 18 th Edition	26