

# Abdul Wahidi

## Accession Number

796

## Origin

Center of Aybak in Samangan Province

## Flowering Time

Balkh – 4<sup>th</sup> week February

## Harvest Time

Balkh – Mid July

## Growing Regions

Currently grown in Samangan, Balkh and Kunduz provinces.

## Market Potential

this is one of the known export varieties for markets wanting whole nuts for direct consumption. Larger production volume and less double kernel characteristic of this variety gives it more reputation in the local and international markets. It has a strong market demand throughout Central Asia and Middle East Asia.

## Quantitative characteristics

Nut is 36% of the shell weight

## Nut Size

Very long length, wide and thick means overall weight of the nut is medium.

## Kernel Size

Kernel size is long, but medium width and thin. The weight is medium.

## Shell Hardiness

The shell of the nut is medium.



## Shell Color

The color of the shell is medium.

## Kernel Color

The color of the kernel is light brown

## Physical Size

	Kernel	Nut
Length (mm)	29.6	46.6
Width (mm)	12.6	22.0
Thickness (mm)	7.4	15.4
Weight (gm)	1.3	3.7
Count per kg	769	270

## Keel Development

The keel is medium.



## Abdul Wahidi, Clone#1003

S.No.	PARAMETERS	TEST RESULTS	TEST METHOD	% Daily Value*
1	Total sugar, % by mass	4.47	IS:6287-1985 (Reaff.2005)	-
2	Carbohydrates, % by mass	17.26	By difference	6
3	Total fat, % by mass	51.65	IS: 4684-1975 (Reaff.2005)	79
4	Protein (N x 5. 18), % by mass	22.75	IS: 7219-1973 Reaff.2005)	45.5
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	28.91	LAB_P_SOP_80 / HPLC	96
9	Energy, kCal/100g	624.89	By Calculation	-
10	Calcium as Ca, mg/100g	215.32	IS: 13433 (P-1) – 1992	22
11	Sodium as Na, mg/100g	17.08	AOAC 966. 16, 18 <sup>th</sup> Edition	1
12	Cholesterol, mg/100g	Not Detected (Detection Limit-1 mg/kg)	AOAC 976. 26, 18 <sup>th</sup> Edition	0
13	Trans fat, % by mass	Not Detected (Detection Limit-1 mg/kg)	AOAC 966. 06, 18 <sup>th</sup> Edition	-
14	Saturated fat, % by mass	3.70	AOAC 966. 06, 18 <sup>th</sup> Edition	19
15	Polyunsaturated fat, % by mass	9.93	AOAC 966. 06, 18 <sup>th</sup> Edition	-
16	Monounsaturated fat, % by mass	38.0	AOAC 966. 06, 18 <sup>th</sup> Edition	-
17	Omega 3 Fatty Acids, % by mass	Not Detected (Detection Limit-1 mg/kg)	AOAC 966. 06, 18 <sup>th</sup> Edition	-
18	Total dietary fiber, % by mass	10.56	AOAC 985. 29, 18 <sup>th</sup> Edition	42
19	Iron as Fe, mg/100g	3.50	AOAC 999. 1, 18 <sup>th</sup> Edition	19