

# Qaharbai

## Accession Number

170

## Origin

Chardara District of  
Kunduz Province

## Flowering Time

Kunduz – 4<sup>th</sup> week  
February

## Harvest Time

Kunduz - 1<sup>st</sup> week of  
August

## Growing Regions

Currently grown in Kunduz  
Balkh and Samangan  
Provinces.

## Market Potential

This is one of the  
productive varieties for  
local markets wanting  
whole nuts for direct  
consumption. It has  
recently created demand  
throughout Central Asia  
and Middle East Asian  
markets.

## Quantitative characteristics

Nut is 53% of the shell  
weight

## Nut Size

Long length, medium  
width and medium  
thickness 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  
hard.

## Keel Development

The keel is medium.

## Shell Color

The color of the shell is



## Physical Size

	Kernel	Nut
Length (mm)	29.2	40.8
Width (mm)	12.4	19.8
Thickness (mm)	7.9	13.0
Weight (gm)	1.4	2.6
Count per kg	714	385

light.

## Kernel Color

The color of the kernel is  
brown.



## Qaharbai, Clone#170

S.No.	PARAMETERS	TEST RESULTS	TEST METHOD	% Daily Value*
1	Total sugar, % by mass	3.31	IS:6287-1985 (Reaff.2005)	-
2	Carbohydrates, % by mass	17.09	By difference	6
3	Total fat, % by mass	50.11	IS: 4684-1975 (Reaff.2005)	77
4	Protein (N x 5. 18), % by mass	23.64	IS: 7219-1973 Reaff.2005)	47
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	29.50	LAB_P_SOP_80 / HPLC	98
9	Energy, kCal/100g	613.91	By Calculation	-
10	Calcium as Ca, mg/100g	246.93	IS: 13433 (P-1) – 1992	25
11	Sodium as Na, mg/100g	16.20	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	3.92	AOAC 966. 06, 18 <sup>th</sup> Edition	20
15	Polyunsaturated fat, % by mass	9.0	AOAC 966. 06, 18 <sup>th</sup> Edition	-
16	Monounsaturated fat, % by mass	37.18	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	11.30	AOAC 985. 29, 18 <sup>th</sup> Edition	45
19	Iron as Fe, mg/100g	3.81	AOAC 999. 1, 18 <sup>th</sup> Edition	21