Sorting

Peeling

Cleaning

Grating

Dewatering

Pulverising

(120°C,8min)

Milling

Sieving

(200µm, 250µm)

Slicing

Drying

(60°C, 24h ; Sun 1-2 days)

Milling

Sieving

(125µm)

Grating

Pulverising

Milling

Sieving

(250µm)

Pressing

Solar Drying

(35-48°C, 8h)

Roasting

Grating

Dewatering & Fermentation

Sieving

Pulverising

Soaking

(Citric Acid 20%W/V,12h)

Grating

Dewatering

Sieving

Roasting

Toasting

Grating

Pressing

Sieving

(125µm)

Toastingg

Slicing

Soaking(Days)

Crumbling

Sun-Drying

Sieving (125µm)

Slicing

Blanching

(>90°C, 5min)

Air Drying

(60°C, 12h)

Milling

Sieving (300µm)

Grating

Dewatering & Fermentation (15 hrs)

Aondoaver *et al*. (2021)

Eduardo *et al*. (2013)

Eje (2020)

Owiah (2020)

Ericksson *et al*. (2014)

Eje (2020)

Eje (2020)

Eje (2020)

Eduardo *et al*. (2013)

Agbara *et al*. (2013)

Eje (2020)

Nwanya *et al*. (2014)

Peeling

Peeling

Slicing (NaS2O5)

Steam Blanching (4 Min)

Drying (60°C, 48h)

Sieving (250µm)

Milling

Slicing (NaS2O5)

Blanching (0.25% NaS2O5; 30 min) Min)

Drying (60°C, 12h)

Sieving (150µm)

Milling

Draining

Ochelle *et al*. (2019)

Eke-Ejiofor *et al*. (2015)

Peeling

Slicing (3mm)

Drying

Grinding

Sieving (200µm)

Slicing

Steam Blanching

(100°C,15 min)

Drying (60°C)

Sieving (200µm)

Milling

Washing (0.05% NaS2O5)

Slicing (1 cm)

Drying (50°C, 24h)

Sieving (200µm)

Milling

Slicing

Soaking

(95°C, 5 min)

Drying (60°C, 24h)

Sieving (700µm)

Milling

Udomkum *et al*. (2022)

Inyang & Asuquo (2016)

Igbabul *et al*. (2014)

Ewunetu *et al*. (2023)

Plantain

Plantain

Banana

Banana

Sorting

Washing

Dehusking

Cooking(Gelatinization)

Milling

Subdi *et al.* (2012)

Sorting

Washing

Drying (50°C, 24h)

Sieving (Less than 100µm)

Milling

Olopade & Oluwole (2013)

Charlotte *et al.* (2022)

Sorting

Cleaning

Tempering

Sieving (250µm)

Dehulling

Degerming

Winnowing

Milling

Igbabul *et al*. (2014b)

Cooking in Alkaline Solution

(94°C, 30-60min)

Drying (50°C-55°C)

Grinding

Steeping (16hrs)

Sieving (500µm)

Sunico *et al*. (2021)

Soaking in NaHCO3(0.5M & 1 M; 1 hr)

(94°C, 30-60min)

Drying

Oven-Cooking (100°C, 1-2 hrs)

Sieving (160µm)

Peries *et al*. (2017)

Sorting

Washing

Draining

Winnowing

Sun-Drying

Toasting(260°C, 3min)

Defatting

Milling

Dry Milling

Sieving (500µm)

Ndifé *et al*. (2011)

Cooling

Sorting

Cleaning

Roasting

(200°C,40-60min)

Dehulling

Cooling

Grinding

Sieving (250µm)

Winnowing

Soaking

(2h, 1:3 W/V)

Dehulling

Parboiling (10min)

Air Drying

Roasting

Cooling

Grinding

Sieving

Cleaning

Soaking

(8-10hrs)

Decanting

Boiling (100°C, 15min)

Dehulling

Draining

Drying (65°C, 48h)

Milling

Sieving (250µm)

Udomkun *et al*. (2022)

Agbara *et al*. (2022)

Ochelle *et al*. (2019)

Cleaning

Boiling

(100°C, 30 min)

Dehulling

Oven Drying

Milling

Drying

Sieving (300µm)

Nwanga *et al*. (2014)

Sorting

Soaking

Drying

Dehulling

Milling

Sieving

Winnowing

Soaking

(2h, 1:3 W/V)

Dehulling

Parboiling (10min)

Air Drying

Roasting

Cooling

Grinding

Sieving

Roasting (135°C, 15 min)

Cooling

Dehulling

Milling

Milling

Sieving (250µm)

Olapade & Oluwole (2013)

Agbara *et al*. (2022)

Olesegun (2017)

Sorting

Soaking

(1 :3 W/V,12hrs,25°C)

Draining

Sprouting (36hrs)

Drying(65°C,9hrs)

Milling

Sieving

Soaking (4 Days)

Cooking

(100°C, 30min)

Draining

Cooling

Dehulling

Cleaning

Drying (60°C, 6hrs)

Milling

Sieving (500µm)

Roasting

(135°C,15min)

Winnowing

Milling

Milling

Sieving (250µm)

Menon *et al*. (2018)

Ukeyima *et al*. (2022)

Olaoye (2016)

Mung Bean

Kidney Bean

Kidney Bean

Cleaning

Slicing

Soaking (0.5% NaS2O5,15 min)

Draining

Drying (60°C, 5h)

Sieving

Chikpah *et al*. (2023)

Sorting

Boiling (100°C, 10 min)

Cooking

(40°C-45°C,1h)

Dehulling

Drying(65°C,36-48hrs)

Milling

Sieving (250µm)

Winnowing

Soaking

(2h, 1:3 W/V)

Dehulling

Parboiling (10min)

Air Drying

Roasting

Cooling

Grinding

Sieving

Soaking

(24hrs)

Dehulling

Boiling (1 :4 W/V,10min)

Drying (50°C, 9h)

Milling

Sieving (250µm)

Olaoye *et al*. (2018)

Agbara *et al*. (2022)

Yusufu & Ejeh (2018)

Cleaning

Cooling

Sorting

Draining

Oven-Drying (60°C)

Washing

Milling

Sieving (500µm)

Ezeocha & Onwuneme (2016)

Sorting

Peeling

Slicing

Cleaning

Blanching (100°C, 5min)

Drying (77°C, 14h)

Sieving

Milling

Drying (65°C,24-36h ;105°C,24h)

Milling

Sieving (500µm)

Mongi *et al*. (2022)

Orhevba & Ndanaimi (2021) (2022)

Sorting

Washing

Draining

Winnowing

Sun-Drying

Toasting(260°C, 3min)

Defatting

Milling

Dry Milling

Sieving (500µm)

Ndiffe *et al*. (2011)

Sorting

Washing

Draining

Winnowing

Sun-Drying

Toasting(260°C, 3min)

Defatting

Milling

Dry Milling

Sieving (500µm)

Ndiffe *et al*. (2011)

Sorting

Peeling

Slicing (<5mm)

Sorting

Peeling

Slicing (<5mm)

Blanching (>90°C, 5min ;62°C,10 min)

Air Drying (60°C,12h)/Oven-Drying (60°C)

Milling

Sieving (250 µm ,300 µm)

Soaking (0.5%NaS2O5+1%NaCl + +0.5%Citric Acid ; 30 min)

Drying (55°C ; 60°C ;12h)

Milling

Sieving (250 µm)

Cooking (100-110°C )

Puréeing

Homogenizing

Agbara *et al*. (2022)

Chikpah *et al*. (2022)

Igbabul *et al*. (2014b)

Bonsi *et al*. (2014, 2016)

Wu *et al*. (2009)

Ezeocha & Onwuneme (2016)

Aniedu & Agugo (2011)