**Table.S1. Details of collected avocado accessions**

| **Sl. No.** | **Accession number** | **District** | **State** | **Latitude (º)** | **Longitude (º)** | **Altitude (MSL)** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | PA-001 | Kodagu | Karnataka | 12.12.33 | 75.50.27 | 974 |
| 2 | PA-002 | Kodagu | Karnataka | 12.22.36 | 75.50.25 | 961 |
| 3 | PA-003 | Kodagu | Karnataka | 12.22.41 | 75.50.18 | 971 |
| 4 | PA-004 | Kodagu | Karnataka | 12.22.41 | 75.50.18 | 975 |
| 5 | PA-005 | Kodagu | Karnataka | 12.25.26 | 75.50.42 | 912 |
| 6 | PA-006 | Kodagu | Karnataka | 12.25.32 | 75.50.36 | 906 |
| 7 | PA-007 | Kodagu | Karnataka | 12.23.43 | 75.50.30 | 908 |
| 8 | PA-008 | Kodagu | Karnataka | 12.23.48 | 75.50.29 | 900 |
| 9 | PA-009 | Kodagu | Karnataka | 12.24.00 | 75.50.54 | 902 |
| 10 | PA-010 | Kodagu | Karnataka | 12.30.55 | 75.49.01 | 957 |
| 11 | PA-011 | Kodagu | Karnataka | 12.30.55 | 75.49.01 | 956 |
| 12 | PA-012 | Kodagu | Karnataka | 12.30.55 | 75.49.02 | 952 |
| 13 | PA-013 | Kodagu | Karnataka | 12.42.26 | 75.74.55 | 1084 |
| 14 | PA-015 | Dindigul | Tamil Nadu | 10.18.44 | 77.38.27 | 1337 |
| 15 | PA-016 | Dindigul | Tamil Nadu | 10.18.46 | 77.38.26 | 1353 |
| 16 | PA-017 | Dindigul | Tamil Nadu | 10.18.49 | 77.38.26 | 1374 |
| 17 | PA-018 | Dindigul | Tamil Nadu | 10.18.44 | 77.38.30 | 1343 |
| 18 | PA-019 | Dindigul | Tamil Nadu | 10.18.45 | 77.38.31 | 1340 |
| 19 | PA-020 | Dindigul | Tamil Nadu | 10.18.19 | 77.38.50 | 1297 |
| 20 | PA-021 | Dindigul | Tamil Nadu | 10.18.03 | 77.38.26 | 1382 |
| 21 | PA-022 | Dindigul | Tamil Nadu | 10.18.02 | 77.38.23 | 1352 |
| 22 | PA-023 | Dindigul | Tamil Nadu | 10.18.07 | 77.38.56 | 1313 |
| 23 | PA-024 | Dindigul | Tamil Nadu | 10.17 .06 | 77.39.06 | 1288 |
| 24 | PA-025 | Dindigul | Tamil Nadu | 10.17.44 | 77.39.06 | 1295 |
| 25 | PA-026 | Dindigul | Tamil Nadu | 10.18.07 | 77.39.23 | 1285 |
| 26 | PA-027 | Dindigul | Tamil Nadu | 10.18.17 | 77.39.25 | 1313 |
| 27 | PA-028 | Dindigul | Tamil Nadu | 10.17.24 | 77.40.40 | 1221 |
| 28 | PA-029 | Dindigul | Tamil Nadu | 10.17.52 | 77.42.03 | 1008 |
| 29 | PA-034 | Dindigul | Tamil Nadu | 10.17.45 | 77.42.17 | 1032 |
| 30 | PA-036 | Dindigul | Tamil Nadu | 10.18.17 | 77.38.45 | 1300 |
| 31 | PA-037 | Dindigul | Tamil Nadu | 10.18.16 | 77.38.49 | 1311 |
| 32 | PA-038 | Dindigul | Tamil Nadu | 10.18.12 | 77.38.43 | 1318 |
| 33 | PA-042 | Dindigul | Tamil Nadu | 10.26.92 | 77.45.34 | 1517 |
| 34 | PA-043 | Dindigul | Tamil Nadu | 10.27.15 | 77.65.34 | 1556 |
| 35 | PA-044 | Dindigul | Tamil Nadu | 10.27.17 | 77.45.36 | 1585 |
| 36 | PA-045 | Dindigul | Tamil Nadu | 10.27.18 | 77.45.32 | 1587 |
| 37 | PA-046 | Dindigul | Tamil Nadu | 10.27.91 | 77.45.42 | 1580 |
| 38 | PA-047 | Kodagu | Karnataka | 12.38.42 | 75.80.81 | 923 |
| 39 | PA-048 | Kodagu | Karnataka | 12.54.32 | 75.84.42 | 845 |
| 40 | PA-049 | Kodagu | Karnataka | 12.59.14 | 75.83.94 | 1030 |
| 41 | PA-050 | Kodagu | Karnataka | 12.44.12 | 75.82.54 | 885 |
| 42 | PA-051 | Kodagu | Karnataka | 12.45.24 | 75.76.84 | 1012 |
| 43 | PA-052 | Salem | Tamil Nadu | 11.78.51 | 78.21.24 | 1265 |
| 44 | PA-053 | Salem | Tamil Nadu | 11.78.61 | 78.21.26 | 1250 |
| 45 | PA-055 | Salem | Tamil Nadu | 11.83.35 | 78.23.82 | 1382 |
| 46 | PA-056 | Salem | Tamil Nadu | 11.80.67 | 78.23.11 | 1262 |
| 47 | PA-057 | Salem | Tamil Nadu | 11.80.67 | 78.23.13 | 1259 |
| 48 | PA-058 | Kodagu | Karnataka | 12.25.59 | 75.43.25 | 1123 |
| 49 | PA-061 | Chikmagalur | Karnataka | 13.02.92 | 75.63.79 | 881 |
| 50 | PA-062 | Chikmagalur | Karnataka | 13.05.35 | 75.57.93 | 848 |
| 51 | PA-064 | Chikmagalur | Karnataka | 13.07.62 | 75.60.44 | 851 |
| 52 | PA-065 | Chikmagalur | Karnataka | 13.11.20 | 75.65.20 | 865 |
| 53 | PA-067 | Chikmagalur | Karnataka | 13.11.88 | 75.62.89 | 898 |
| 54 | PA-068 | Chikmagalur | Karnataka | 13.12.20 | 75.62.73 | 892 |
| 55 | PA-069 | Chikmagalur | Karnataka | 13.10.46 | 75.63.72 | 857 |
| 56 | PA-070 | Chikmagalur | Karnataka | 13.15.06 | 75.64.90 | 896 |
| 57 | PA-071 | Chikmagalur | Karnataka | 13.13.57 | 75.63.92 | 875 |
| 58 | PA-074 | Chikmagalur | Karnataka | 13.42.66 | 75.47.76 | 720 |
| 59 | PA-075 | Bengaluru | Karnataka | 12.87.91 | 77.59.24 | 820 |
| 60 | PA-076 | Bengaluru | Karnataka | 12.87.93 | 77.59.03 | 812 |
| 61 | PA-078 | Kodagu | Karnataka | 12.43.23 | 75.40.10 | 894 |
| 62 | PA-079 | Kodagu | Karnataka | 12.39.04 | 75.84.64 | 838 |
| 63 | PA-082 | Kodagu | Karnataka | 12.18.74 | 75 92 96 82 | 752 |
| 64 | PA-083 | Kodagu | Karnataka | 12.20.16 | 75.97.80 | 794 |
| 65 | PA-084 | Kodagu | Karnataka | 12.21.01 | 75.96.69 | 786 |
| 66 | PA-085 | Kodagu | Karnataka | 12.20.97 | 75.96.70 | 778 |
| 67 | PA-086 | Kodagu | Karnataka | 12.13.95 | 75.92.20 | 735 |
| 68 | PA-088 | Kodagu | Karnataka | 12.46.76 | 75.72.46 | 1001 |
| 69 | PA-089 | Kodagu | Karnataka | 12.45.10 | 75.82.83 | 877 |
| 70 | PA-090 | Idukki | Kerala | 9.47.12 | 77.09.15 | 1000 |
| 71 | PA-091 | Idukki | Kerala | 9.46.23 | 77.08.45 | 1005 |
| 72 | PA-092 | Wayanad | Kerala | 11.59.86 | 76.21.66 | 810 |
| 73 | PA-093 | Wayanad | Kerala | 11.59.86 | 76.21.64 | 802 |
| 74 | PA-094 | Wayanad | Kerala | 11.61.72 | 76.21.26 | 803 |
| 75 | PA-095 | Wayanad | Kerala | 11.65.16 | 76.21.64 | 740 |
| 76 | PA-096 | Wayanad | Kerala | 11.59.89 | 76.21.59 | 800 |
| 77 | PA-097 | Wayanad | Kerala | 11.67.43 | 76.13.96 | 681 |
| 78 | PA-098 | Wayanad | Kerala | 11.59.89 | 76.21.62 | 806 |
| 79 | PA-099 | Wayanad | Kerala | 11.59.83 | 76.21.65 | 806 |
| 80 | PA-100 | Wayanad | Kerala | 11.59.89 | 76.21.40 | 802 |
| 81 | PA-101 | Bengaluru | Karnataka | 13.13.18 | 77.49.58 | 772 |
| 82 | PA-102 | Kodagu | Karnataka | 12.26.22 | 75.91.00 | 854 |
| 83 | PA-103 | Kodagu | Karnataka | 12.39.46 | 75.84.57 | 835 |

**Table S2. List of avocado accessions and their probable botanical races based on morphological and biochemical traits**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.**  **No.** | **Accession**  **number** | **Specific traits of accessions** | **Probable race** |
| 1 | PA-001 | Large leaves, green peel, large seeds | West Indian |
| 2 | PA-002 | Large leaves, obovate fruit, green and smooth peel, large seeds, medium fat content | West Indian |
| 3 | PA-003 | Large seed, dark green, smooth peel, medium fat | West Indian |
| 4 | PA-004 | Large leaves, obovate fruits, green peel, large seed, medium fat | West Indian, Guatemalan |
| 5 | PA-005 | Large leaves, green and smooth peel, large seed, | West Indian |
| 6 | PA-006 | Small pyriform fruits, green peel, large seed, low fat | West Indian, Mexican |
| 7 | PA-007 | Pyriform green fruits, large seed, rough cotyledon surface, medium fat | West Indian |
| 8 | PA-008 | Green fruits, thick peel, medium fat | Guatemalan, West Indian |
| 9 | PA-009 | Green peel, large seeds | West Indian, |
| 10 | PA-010 | Large leaves, Large fruit, long fruits, thin peel, low fat content | West Indian |
| 11 | PA-011 | Rhomboidal fruits, thick peel, medium fat content | Guatemalan |
| 12 | PA-012 | Large leaves, Long fruits, large fruit, thin peel, low fat | West Indian |
| 13 | PA-013 | Green fruits, large seed, low fat, | West Indian, Mexican |
| 14 | PA-015 | Small seed, rough peel, seed tightly attached to pulp, medium fat | Guatemalan, Mexican |
| 15 | PA-016 | Purple colour, large fruits, thick peel | West Indian, Mexican |
| 16 | PA-017 | Green and shiny fruits, large seeds, | West Indian |
| 17 | PA-018 | Medium size fruits, small seeds, medium fat, green peel | Guatemalan, West Indian |
| 18 | PA-019 | Medium size fruits, large seeds, green peel, low fat | West Indian |
| 19 | PA-020 | Medium frit size, low fat, green peel | West Indian |
| 20 | PA-021 | Small fruit, low fat, green peel | West Indian |
| 21 | PA-022 | Small fruit, low fat, purple peel | West Indian, Mexican |
| 22 | PA-023 | Small seed, low fat, purple peel | West Indian |
| 23 | PA-024 | Medium size fruit, Small seed, green peel | Guatemalan |
| 24 | PA-025 | Small seed, Medium fat, green peel, smooth seed surface | Guatemalan, West Indian |
| 25 | PA-026 | Medium fruit, large seed, yellow peel | West Indian |
| 26 | PA-027 | Small fruit, Small seed, thick peel, medium fat | Mexican, Guatemalan |
| 27 | PA-028 | Smooth peel, medium fat, purple peel | Guatemalan, West Indian |
| 28 | PA-029 | Large seed, medium fat, | West Indian |
| 29 | PA-034 | Small fruit, low fat, green and smooth peel | Guatemalan, West Indian |
| 30 | PA-036 | Medium fruit size, small seed, low fat, purple peel | Guatemalan, West Indian |
| 31 | PA-037 | Medium fruit, large seed, low fat, green peel | West Indian, Mexican |
| 32 | PA-038 | Large fruit, small seed, rough seed, low fat, black peel | West Indian, Mexican |
| 33 | PA-042 | Small fruit, high fat, purple peel | Mexican |
| 34 | PA-043 | Thick peel, high fat, seed tightly attached to pulp | Guatemalan, Mexican |
| 35 | PA-044 | Large fruits, green peel, medium peel thickness, | Mexican, Guatemalan |
| 36 | PA-045 | Large fruits, green peel, small seed | Mexican, West Indian |
| 37 | PA-046 | Large fruits, green peel, small seed | Guatemalan, Mexican |
| 38 | PA-047 | Pyriform fruits, green peel, smooth peel | West Indian |
| 39 | PA-048 | Long fruits, purple peel, medium fat | West Indian, Guatemalan |
| 40 | PA-049 | Pyriform fruits, large seed, medium fat, light yellow peel | West Indian |
| 41 | PA-050 | Small seeds, seeds tightly attached to pulp, thick peel, | Guatemalan |
| 42 | PA-051 | Small fruit, Large seed, green peel, low fat | West Indian, Mexican |
| 43 | PA-052 | Small fruit, high fat, green peel | West Indian, Mexican |
| 44 | PA-053 | Rough seed, medium fat, green peel | West Indian |
| 45 | PA-055 | Small fruit, medium fat, red peel | Mexican, |
| 46 | PA-056 | Small fruit, high fat, green peel | Mexican, West Indian |
| 47 | PA-057 | High fat, Medium fruit, small seed | Mexican |
| 48 | PA-058 | Dark green peel, large seed, Medium fat | West Indian |
| 49 | PA-061 | Large seed, rough seed, green peel | West Indian |
| 50 | PA-062 | Low fat, green peel, seed tightly attached to pulp | West Indian, Guatemalan |
| 51 | PA-064 | Large seed, medium fat, purple peel | Mexican, West Indian |
| 52 | PA-065 | Medium fruit size, Large seed, low fat, green and smooth peel | West Indian |
| 53 | PA-067 | Large fruit, medium fat, green peel | West Indian, Guatemalan |
| 54 | PA-068 | Small fruit, green peel, medium fat | Mexican, West Indian |
| 55 | PA-069 | Large fruit, large seed, green and smooth peel, Medium fat | West Indian, Guatemalan |
| 56 | PA-070 | Medium fruit, large seed, green peel, Medium fat | West Indian |
| 57 | PA-071 | Large seed, low fat, green peel | West Indian |
| 58 | PA-074 | Large seed, low fat, green peel | West Indian, Mexican |
| 59 | PA-075 | Small fruit, large seed, purple peel, low fat | Mexican, West Indian |
| 60 | PA-076 | Small fruit, medium fat, seed tightly adhere to pulp, green peel, | Guatemalan, Mexican |
| 61 | PA-078 | Small fruit, medium fat, black peel | Mexican, West Indian |
| 62 | PA-079 | Small fruit, seed tightly adhere to pulp, medium fat, red peel | Mexican, West Indian |
| 63 | PA-082 | obovate fruits, small seed, dark green and smooth peel | West Indian, Guatemalan |
| 64 | PA-083 | Large seed, low fat, purple peel | West Indian |
| 65 | PA-084 | Large leaves, thick peel, seed tightly adhere to pulp, Medium fat, | Guatemalan |
| 66 | PA-085 | Large fruit, low fat, purple peel | West Indian |
| 67 | PA-086 | Large fruit, large seed, green peel, medium fat | West Indian |
| 68 | PA-088 | Small fruits, large seed, purple peel, medium fat | West Indian, West Indian |
| 69 | PA-089 | Medium size long fruits, green smooth peel, thin peel, low fat | west Indian |
| 70 | PA-090 | Large fruits, green peel, medium fat, rough cotyledon | West Indian |
| 71 | PA-091 | Large leaves, small fruit, small seed, high fat, purple peel | Mexican, Guatemalan |
| 72 | PA-092 | Small fruit, large seed, low fat,black peel, more fibre | Mexican, West Indian |
| 73 | PA-093 | Pyriform fruits, small fruits, medium fat, purple peel | Mexican, West Indian |
| 74 | PA-094 | Medium fruits, large seed, low fat, green peel | West Indian |
| 75 | PA-095 | Small fruits, large seed, purple peel | Mexican |
| 76 | PA-096 | Small fruit, large seed, green peel | Mexican, West Indian |
| 77 | PA-097 | Large leaves, large seed, low fat | West Indian |
| 78 | PA-098 | Large leaves, green peel, large seed, low fat | West Indian |
| 79 | PA-099 | Small fruit, Low fat, Red peel, medium peel | Guatemalan, West Indian |
| 80 | PA-100 | Small fruit, large seed, thin peel, Low fat, red peel | West Indian, Mexican |
| 81 | PA-101 | Large seed, medium fat, smooth peel | West Indian |
| 82 | PA-102 | Large fruits, green peel, thin peel, large seed | West Indian |
| 83 | PA-103 | Large fruits, green peel, thin peel, seed tightly attached to pulp | West Indian, Guatemalan |

**Table S3. Variability for leaf and pedicel characters of different avocado accessions**

| **Acc. No.** | **Leaf length (cm)** | **Leaf width (cm)** | **Pedicel diameter (cm)** |
| --- | --- | --- | --- |
| PA-001 | 22.37 | 11.60 | 0.66 |
| PA-002 | 22.90 | 10.53 | 0.75 |
| PA-003 | 16.37 | 6.53 | 0.66 |
| PA-004 | 21.57 | 8.70 | 0.67 |
| PA-005 | 25.93 | 10.60 | 0.65 |
| PA-006 | 21.07 | 10.13 | 0.64 |
| PA-007 | 19.20 | 10.20 | 0.68 |
| PA-008 | 19.77 | 10.87 | 1.03 |
| PA-009 | 19.90 | 8.37 | 0.56 |
| PA-010 | 23.27 | 9.10 | 1.10 |
| PA-011 | 21.57 | 10.23 | 1.06 |
| PA-012 | 24.73 | 10.13 | 0.95 |
| PA-013 | 20.90 | 7.80 | 0.84 |
| PA-015 | 19.63 | 8.93 | 0.82 |
| PA-016 | 18.73 | 8.90 | 0.85 |
| PA-017 | 13.73 | 7.17 | 0.77 |
| PA-018 | 20.80 | 8.83 | 0.99 |
| PA-019 | 17.40 | 5.77 | 1.32 |
| PA-020 | 13.60 | 6.70 | 0.69 |
| PA-021 | 13.53 | 5.70 | 0.76 |
| PA-022 | 18.73 | 7.80 | 0.98 |
| PA-023 | 10.70 | 4.63 | 0.76 |
| PA-024 | 17.63 | 7.23 | 0.83 |
| PA-025 | 11.47 | 6.63 | 1.02 |
| PA-026 | 11.90 | 7.13 | 0.90 |
| PA-027 | 25.07 | 6.30 | 0.93 |
| PA-028 | 17.37 | 8.30 | 0.88 |
| PA-029 | 20.50 | 7.80 | 1.00 |
| PA-034 | 17.97 | 6.87 | 0.60 |
| PA-036 | 14.00 | 6.70 | 0.82 |
| PA-037 | 15.53 | 7.53 | 1.31 |
| PA-038 | 20.88 | 7.30 | 1.02 |
| PA-042 | 17.41 | 7.41 | 1.26 |
| PA-043 | 19.47 | 6.97 | 1.48 |
| PA-044 | 18.10 | 10.40 | 0.98 |
| PA-045 | 14.60 | 9.23 | 0.94 |
| PA-046 | 23.13 | 9.57 | 1.03 |
| PA-047 | 19.13 | 8.80 | 0.77 |
| PA-048 | 20.10 | 9.09 | 0.64 |
| PA-049 | 19.03 | 8.13 | 1.30 |
| PA-050 | 16.33 | 6.63 | 0.90 |
| PA-051 | 17.73 | 8.83 | 0.74 |
| PA-052 | 21.20 | 9.30 | 1.05 |
| PA-053 | 18.87 | 8.50 | 0.58 |
| PA-055 | 17.00 | 9.23 | 0.73 |
| PA-056 | 15.10 | 8.87 | 0.87 |
| PA-057 | 17.53 | 9.03 | 0.90 |
| PA-058 | 15.97 | 10.73 | 0.87 |
| PA-061 | 18.03 | 8.60 | 0.98 |
| PA-062 | 18.40 | 6.93 | 0.68 |
| PA-064 | 14.03 | 6.57 | 0.64 |
| PA-065 | 15.90 | 8.47 | 1.03 |
| PA-067 | 12.17 | 4.93 | 0.65 |
| PA-068 | 18.43 | 8.63 | 0.91 |
| PA-069 | 21.77 | 9.47 | 0.72 |
| PA-070 | 19.30 | 9.37 | 0.63 |
| PA-071 | 14.77 | 8.93 | 0.61 |
| PA-074 | 16.23 | 8.60 | 0.91 |
| PA-075 | 19.80 | 7.70 | 0.74 |
| PA-076 | 20.27 | 9.33 | 0.62 |
| PA-078 | 19.63 | 9.37 | 0.97 |
| PA-079 | 16.60 | 10.80 | 0.89 |
| PA-082 | 14.07 | 5.80 | 0.90 |
| PA-083 | 12.03 | 5.68 | 0.80 |
| PA-084 | 26.37 | 11.57 | 0.78 |
| PA-085 | 14.03 | 6.50 | 0.84 |
| PA-086 | 15.90 | 8.07 | 0.71 |
| PA-088 | 15.43 | 7.63 | 0.79 |
| PA-089 | 14.03 | 5.47 | 0.91 |
| PA-090 | 18.87 | 9.10 | 0.91 |
| PA-091 | 27.17 | 9.63 | 0.70 |
| PA-092 | 22.33 | 11.93 | 0.78 |
| PA-093 | 18.47 | 8.27 | 0.85 |
| PA-094 | 17.93 | 8.50 | 0.69 |
| PA-095 | 20.40 | 11.43 | 0.67 |
| PA-096 | 19.27 | 9.73 | 0.74 |
| PA-097 | 23.27 | 14.50 | 0.63 |
| PA-098 | 28.00 | 11.23 | 0.75 |
| PA-099 | 17.97 | 7.37 | 0.65 |
| PA-100 | 17.23 | 9.90 | 0.97 |
| PA-101 | 17.70 | 9.40 | 0.76 |
| PA-102 | 18.43 | 8.52 | 0.85 |
| PA-103 | 22.37 | 11.60 | 0.66 |
| Mean | 18.51 | 8.57 | 0.75 |
| Maximum | 28.00 | 14.50 | 1.48 |
| Minimum | 10.70 | 4.63 | 0.56 |
| SE(m)± | 0.77 | 0.41 | 0.04 |
| CD @ 5% | 2.13 | 1.15 | 0.10 |
| CV (%) | 7.2 | 8.40 | 7.65 |

**Table S4. Variability for fruit and pulp characters of different avocado accessions**

| **Acc. No.** | **Fruit weight (g)** | **Fruit length (cm)** | **Fruit width (cm)** | **Pulp weight (g)** | **Pulp per cent (%)** |
| --- | --- | --- | --- | --- | --- |
| PA-001 | 302.2 | 9.12 | 8.08 | 186.89 | 61.35 |
| PA-002 | 325.8 | 12.86 | 7.70 | 217.63 | 66.71 |
| PA-003 | 393.0 | 10.73 | 9.06 | 271.25 | 68.14 |
| PA-004 | 342.6 | 10.67 | 8.68 | 244.98 | 70.83 |
| PA-005 | 271.3 | 9.15 | 7.36 | 171.26 | 62.25 |
| PA-006 | 201.8 | 10.19 | 6.79 | 116.75 | 57.66 |
| PA-007 | 480.0 | 16.68 | 8.57 | 334.73 | 69.84 |
| PA-008 | 429.0 | 11.45 | 9.09 | 298.29 | 69.53 |
| PA-009 | 341.3 | 12.64 | 8.03 | 232.32 | 67.96 |
| PA-010 | 499.5 | 17.86 | 7.85 | 405.15 | 80.71 |
| PA-011 | 501.3 | 11.89 | 9.15 | 366.04 | 72.80 |
| PA-012 | 782.9 | 19.75 | 9.67 | 645.96 | 82.53 |
| PA-013 | 212.3 | 9.72 | 7.03 | 125.34 | 58.86 |
| PA-015 | 266.1 | 10.15 | 7.61 | 202.42 | 76.21 |
| PA-016 | 327.4 | 9.88 | 8.50 | 229.36 | 70.06 |
| PA-017 | 296.9 | 11.30 | 7.78 | 200.80 | 67.80 |
| PA-018 | 410.6 | 10.55 | 9.12 | 325.84 | 79.27 |
| PA-019 | 424.2 | 9.60 | 9.31 | 294.62 | 69.31 |
| PA-020 | 352.8 | 11.29 | 8.68 | 263.89 | 74.85 |
| PA-021 | 250.3 | 8.35 | 9.00 | 176.16 | 70.40 |
| PA-022 | 168.6 | 9.22 | 7.13 | 109.90 | 65.16 |
| PA-023 | 300.1 | 8.55 | 8.45 | 212.52 | 70.71 |
| PA-024 | 407.9 | 13.60 | 8.33 | 321.40 | 78.80 |
| PA-025 | 400.9 | 16.69 | 7.27 | 336.57 | 83.95 |
| PA-026 | 398.3 | 13.20 | 7.90 | 255.38 | 64.25 |
| PA-027 | 183.3 | 10.19 | 6.75 | 137.39 | 75.19 |
| PA-028 | 257.3 | 13.40 | 7.06 | 186.40 | 72.44 |
| PA-029 | 262.3 | 11.56 | 7.12 | 169.56 | 64.62 |
| PA-034 | 97.3 | 5.69 | 5.80 | 55.99 | 57.52 |
| PA-036 | 371.5 | 11.82 | 8.15 | 310.71 | 83.60 |
| PA-037 | 484.6 | 9.44 | 9.76 | 357.41 | 73.39 |
| PA-038 | 703.2 | 14.33 | 10.88 | 550.26 | 78.25 |
| PA-042 | 233.3 | 10.54 | 6.78 | 161.92 | 68.79 |
| PA-043 | 277.8 | 8.65 | 8.62 | 151.75 | 54.53 |
| PA-044 | 575.7 | 11.76 | 9.75 | 404.44 | 70.21 |
| PA-045 | 426.3 | 11.26 | 8.87 | 345.37 | 80.91 |
| PA-046 | 312.2 | 12.32 | 7.74 | 212.47 | 68.04 |
| PA-047 | 370.1 | 15.28 | 7.67 | 280.26 | 75.70 |
| PA-048 | 412.0 | 17.14 | 8.24 | 314.63 | 76.34 |
| PA-049 | 277.2 | 13.60 | 7.36 | 173.30 | 61.73 |
| PA-050 | 340.9 | 9.44 | 8.84 | 259.82 | 76.15 |
| PA-051 | 197.8 | 8.58 | 7.39 | 112.82 | 56.99 |
| PA-052 | 205.4 | 10.88 | 6.76 | 149.97 | 71.79 |
| PA-053 | 305.1 | 13.34 | 7.71 | 229.55 | 75.18 |
| PA-055 | 155.5 | 8.97 | 6.31 | 112.54 | 72.25 |
| PA-056 | 75.9 | 7.20 | 4.77 | 48.08 | 62.87 |
| PA-057 | 281.5 | 10.10 | 7.97 | 206.34 | 68.85 |
| PA-058 | 242.9 | 10.38 | 7.39 | 154.58 | 63.59 |
| PA-061 | 220.5 | 8.53 | 6.90 | 136.93 | 61.95 |
| PA-062 | 271.1 | 8.14 | 7.29 | 184.27 | 67.83 |
| PA-064 | 277.6 | 10.67 | 7.47 | 200.72 | 72.24 |
| PA-065 | 395.6 | 11.36 | 8.51 | 289.92 | 73.34 |
| PA-067 | 533.3 | 10.90 | 9.15 | 388.43 | 72.22 |
| PA-068 | 190.0 | 9.69 | 5.33 | 134.58 | 70.86 |
| PA-069 | 541.1 | 10.83 | 10.30 | 400.99 | 73.51 |
| PA-070 | 368.4 | 9.10 | 8.50 | 213.22 | 57.02 |
| PA-071 | 268.1 | 10.57 | 7.37 | 155.81 | 58.10 |
| PA-074 | 194.2 | 11.10 | 6.07 | 124.61 | 64.23 |
| PA-075 | 183.6 | 8.13 | 6.30 | 105.28 | 57.33 |
| PA-076 | 209.8 | 8.53 | 6.93 | 150.84 | 71.49 |
| PA-078 | 236.7 | 9.93 | 7.05 | 190.13 | 80.21 |
| PA-079 | 116.7 | 7.67 | 5.27 | 74.37 | 64.08 |
| PA-082 | 343.5 | 12.83 | 6.67 | 294.74 | 85.73 |
| PA-083 | 310.2 | 11.73 | 8.17 | 177.19 | 56.67 |
| PA-084 | 340.6 | 8.80 | 8.57 | 215.30 | 63.20 |
| PA-085 | 474.7 | 12.90 | 8.80 | 353.77 | 74.57 |
| PA-086 | 529.3 | 12.60 | 9.07 | 338.30 | 63.66 |
| PA-088 | 303.2 | 8.91 | 7.57 | 199.83 | 65.88 |
| PA-089 | 397.5 | 16.43 | 7.00 | 304.00 | 76.48 |
| PA-090 | 523.3 | 13.50 | 8.97 | 407.63 | 77.73 |
| PA-091 | 242.7 | 7.50 | 7.20 | 158.67 | 65.39 |
| PA-092 | 299.6 | 11.77 | 7.35 | 204.51 | 67.88 |
| PA-093 | 171.6 | 10.73 | 5.93 | 116.40 | 67.44 |
| PA-094 | 332.0 | 12.07 | 7.55 | 217.64 | 65.11 |
| PA-095 | 246.1 | 9.73 | 6.70 | 152.52 | 61.92 |
| PA-096 | 196.0 | 7.83 | 6.23 | 123.94 | 63.46 |
| PA-097 | 329.2 | 11.37 | 7.20 | 203.38 | 61.72 |
| PA-098 | 263.6 | 9.84 | 7.14 | 186.53 | 70.75 |
| PA-099 | 273.6 | 9.80 | 7.10 | 191.07 | 69.66 |
| PA-100 | 284.6 | 11.77 | 7.53 | 191.51 | 67.37 |
| PA-101 | 269.1 | 7.59 | 8.17 | 157.55 | 58.69 |
| PA-102 | 934.1 | 21.79 | 9.93 | 736.19 | 78.78 |
| PA-103 | 566.1 | 13.07 | 9.61 | 447.18 | 78.77 |
| Mean | 334.62 | 11.19 | 7.82 | 238.06 | 69.33 |
| Maximum | 934.12 | 21.79 | 10.88 | 736.19 | 85.73 |
| Minimum | 75.88 | 5.69 | 4.77 | 48.08 | 54.53 |
| SE(m)± | 23.60 | 0.44 | 0.25 | 19.60 | 1.76 |
| CD @ 5% | 65.413 | 1.214 | 0.673 | 54.319 | 4.875 |
| CV (%) | 12.21 | 6.760 | 5.555 | 14.275 | 4.396 |

**Table S5. Variability for peel characters of different avocado accessions**

| **Acc. No.** | **Peel weight (g)** | **Peel per cent (%)** | **Peel thickness (mm)** |
| --- | --- | --- | --- |
| PA-001 | 33.03 | 11.13 | 0.62 |
| PA-002 | 33.31 | 10.34 | 0.68 |
| PA-003 | 31.24 | 7.96 | 0.95 |
| PA-004 | 32.14 | 9.44 | 0.88 |
| PA-005 | 22.21 | 8.40 | 0.55 |
| PA-006 | 19.76 | 9.84 | 0.61 |
| PA-007 | 52.92 | 10.93 | 0.81 |
| PA-008 | 48.02 | 11.20 | 2.00 |
| PA-009 | 36.78 | 10.80 | 1.00 |
| PA-010 | 33.78 | 6.81 | 0.23 |
| PA-011 | 56.80 | 11.15 | 2.07 |
| PA-012 | 62.67 | 7.99 | 0.23 |
| PA-013 | 26.35 | 12.44 | 0.70 |
| PA-015 | 29.69 | 11.10 | 0.70 |
| PA-016 | 31.92 | 9.76 | 1.00 |
| PA-017 | 34.05 | 11.33 | 0.62 |
| PA-018 | 39.10 | 9.54 | 1.13 |
| PA-019 | 41.82 | 9.90 | 1.00 |
| PA-020 | 29.26 | 8.29 | 0.78 |
| PA-021 | 29.37 | 11.74 | 0.68 |
| PA-022 | 23.27 | 13.82 | 1.03 |
| PA-023 | 48.75 | 16.31 | 0.82 |
| PA-024 | 37.75 | 9.25 | 0.73 |
| PA-025 | 22.33 | 5.57 | 1.00 |
| PA-026 | 50.60 | 12.60 | 1.43 |
| PA-027 | 16.43 | 8.85 | 1.80 |
| PA-028 | 28.59 | 11.11 | 1.07 |
| PA-029 | 28.53 | 11.04 | 1.23 |
| PA-034 | 19.84 | 20.42 | 1.00 |
| PA-036 | 24.73 | 6.67 | 0.90 |
| PA-037 | 42.78 | 8.92 | 1.03 |
| PA-038 | 57.08 | 8.12 | 0.77 |
| PA-042 | 29.37 | 12.91 | 0.70 |
| PA-043 | 41.92 | 15.12 | 2.13 |
| PA-044 | 73.47 | 12.80 | 1.43 |
| PA-045 | 40.60 | 9.60 | 0.87 |
| PA-046 | 54.10 | 17.33 | 1.17 |
| PA-047 | 34.13 | 9.23 | 0.53 |
| PA-048 | 32.82 | 7.97 | 0.63 |
| PA-049 | 25.70 | 9.33 | 0.73 |
| PA-050 | 36.73 | 10.85 | 1.60 |
| PA-051 | 23.22 | 11.74 | 0.87 |
| PA-052 | 21.48 | 10.69 | 0.53 |
| PA-053 | 43.73 | 14.40 | 0.63 |
| PA-055 | 16.79 | 10.86 | 0.63 |
| PA-056 | 9.75 | 12.97 | 0.70 |
| PA-057 | 36.41 | 13.37 | 0.83 |
| PA-058 | 21.35 | 8.74 | 0.83 |
| PA-061 | 19.57 | 8.92 | 0.62 |
| PA-062 | 34.33 | 12.75 | 0.72 |
| PA-064 | 25.27 | 9.10 | 0.53 |
| PA-065 | 29.93 | 7.54 | 0.80 |
| PA-067 | 35.47 | 6.68 | 0.43 |
| PA-068 | 19.51 | 10.26 | 1.23 |
| PA-069 | 39.34 | 7.27 | 0.63 |
| PA-070 | 42.43 | 11.42 | 1.13 |
| PA-071 | 24.58 | 9.28 | 0.53 |
| PA-074 | 24.96 | 12.79 | 0.27 |
| PA-075 | 19.57 | 10.66 | 0.63 |
| PA-076 | 26.34 | 12.68 | 1.03 |
| PA-078 | 18.58 | 7.94 | 0.30 |
| PA-079 | 20.96 | 18.06 | 1.23 |
| PA-082 | 26.88 | 7.90 | 0.72 |
| PA-083 | 33.51 | 10.93 | 0.93 |
| PA-084 | 34.48 | 10.13 | 2.23 |
| PA-085 | 42.17 | 8.87 | 0.90 |
| PA-086 | 40.37 | 7.69 | 1.23 |
| PA-088 | 22.75 | 7.50 | 1.17 |
| PA-089 | 25.11 | 6.28 | 0.63 |
| PA-090 | 54.77 | 10.49 | 1.00 |
| PA-091 | 34.75 | 14.32 | 1.03 |
| PA-092 | 41.87 | 14.18 | 1.00 |
| PA-093 | 28.24 | 16.87 | 0.90 |
| PA-094 | 36.34 | 11.09 | 1.00 |
| PA-095 | 34.68 | 14.18 | 0.83 |
| PA-096 | 17.67 | 9.09 | 0.93 |
| PA-097 | 30.90 | 9.47 | 0.80 |
| PA-098 | 25.45 | 9.65 | 0.90 |
| PA-099 | 34.17 | 12.55 | 1.03 |
| PA-100 | 22.74 | 8.03 | 0.43 |
| PA-101 | 28.33 | 10.54 | 1.17 |
| PA-102 | 67.01 | 7.19 | 0.61 |
| PA-103 | 25.33 | 4.47 | 0.37 |
| Mean | 33.19 | 10.57 | 0.90 |
| Maximum | 73.47 | 20.42 | 2.23 |
| Minimum | 9.75 | 4.47 | 0.23 |
| SE(m)± | 2.83 | 0.80 | 0.032 |
| CD @ 5% | 7.844 | 2.212 | 0.09 |
| CV (%) | 14.773 | 13.089 | 6.09 |

**Table S6. Variability for seed characters of different avocado accessions**

| **Acc. No.** | **Seed weight (g)** | **Seed per cent (%)** | **Seed length (cm)** | **Seed diameter (cm)** | **Length of seed cavity (cm)** | **Width of seed cavity**  **(cm)** |
| --- | --- | --- | --- | --- | --- | --- |
| PA-001 | 82.30 | 27.52 | 4.79 | 5.43 | 5.04 | 5.74 |
| PA-002 | 74.82 | 22.95 | 5.82 | 4.78 | 7.20 | 5.51 |
| PA-003 | 93.80 | 23.89 | 4.82 | 5.25 | 6.08 | 5.79 |
| PA-004 | 65.51 | 19.73 | 4.54 | 5.02 | 5.97 | 5.11 |
| PA-005 | 77.88 | 29.35 | 5.56 | 5.04 | 5.77 | 5.18 |
| PA-006 | 65.30 | 32.50 | 4.81 | 4.79 | 5.88 | 5.02 |
| PA-007 | 92.33 | 19.23 | 6.65 | 5.55 | 7.23 | 5.62 |
| PA-008 | 82.67 | 19.27 | 4.54 | 5.37 | 4.82 | 5.57 |
| PA-009 | 72.17 | 21.24 | 5.39 | 4.88 | 7.28 | 5.27 |
| PA-010 | 60.56 | 12.47 | 5.72 | 4.44 | 11.39 | 4.92 |
| PA-011 | 78.45 | 16.05 | 4.85 | 5.02 | 5.40 | 5.17 |
| PA-012 | 74.25 | 9.49 | 5.13 | 4.61 | 12.02 | 5.30 |
| PA-013 | 60.59 | 28.70 | 5.13 | 4.76 | 5.80 | 4.87 |
| PA-015 | 33.99 | 12.69 | 3.55 | 3.96 | 4.32 | 4.09 |
| PA-016 | 66.16 | 20.18 | 4.31 | 4.90 | 4.87 | 4.94 |
| PA-017 | 62.06 | 20.87 | 4.78 | 4.68 | 5.09 | 4.91 |
| PA-018 | 45.68 | 11.18 | 4.01 | 4.32 | 4.29 | 4.47 |
| PA-019 | 87.73 | 20.79 | 4.63 | 5.63 | 4.81 | 5.73 |
| PA-020 | 59.68 | 16.86 | 4.63 | 4.40 | 5.48 | 4.65 |
| PA-021 | 44.74 | 17.87 | 4.09 | 4.09 | 4.19 | 4.31 |
| PA-022 | 35.43 | 21.02 | 3.49 | 4.13 | 3.68 | 4.26 |
| PA-023 | 38.79 | 12.98 | 3.69 | 4.23 | 4.53 | 4.53 |
| PA-024 | 48.71 | 11.95 | 5.53 | 3.97 | 6.44 | 4.28 |
| PA-025 | 41.96 | 10.47 | 6.12 | 3.15 | 6.43 | 3.20 |
| PA-026 | 92.35 | 23.15 | 6.33 | 5.23 | 7.03 | 5.30 |
| PA-027 | 29.44 | 15.95 | 2.88 | 3.24 | 3.84 | 3.54 |
| PA-028 | 42.31 | 16.44 | 5.65 | 3.69 | 5.94 | 3.98 |
| PA-029 | 64.25 | 24.34 | 5.04 | 4.55 | 5.96 | 4.79 |
| PA-034 | 21.43 | 22.06 | 3.52 | 3.29 | 3.87 | 3.50 |
| PA-036 | 36.04 | 9.72 | 4.58 | 3.87 | 5.07 | 4.15 |
| PA-037 | 80.93 | 16.89 | 4.21 | 5.46 | 4.46 | 5.57 |
| PA-038 | 95.84 | 13.63 | 6.55 | 5.37 | 6.76 | 5.99 |
| PA-042 | 41.99 | 18.30 | 4.25 | 3.92 | 4.66 | 4.18 |
| PA-043 | 84.10 | 30.36 | 4.95 | 4.53 | 5.53 | 5.89 |
| PA-044 | 97.80 | 16.99 | 4.84 | 5.57 | 5.23 | 5.80 |
| PA-045 | 40.36 | 9.48 | 4.33 | 3.87 | 4.94 | 4.71 |
| PA-046 | 45.60 | 14.60 | 4.32 | 4.22 | 5.22 | 4.59 |
| PA-047 | 55.72 | 15.07 | 4.12 | 3.64 | 4.19 | 3.70 |
| PA-048 | 64.54 | 15.69 | 7.08 | 4.18 | 9.34 | 5.05 |
| PA-049 | 80.17 | 28.94 | 6.62 | 4.77 | 9.27 | 5.20 |
| PA-050 | 44.39 | 12.99 | 3.72 | 4.40 | 4.11 | 4.69 |
| PA-051 | 61.74 | 31.27 | 4.09 | 4.85 | 4.69 | 5.11 |
| PA-052 | 35.24 | 17.52 | 4.13 | 3.48 | 4.61 | 3.61 |
| PA-053 | 31.79 | 10.42 | 6.64 | 3.95 | 7.05 | 4.17 |
| PA-055 | 26.21 | 16.89 | 3.61 | 3.43 | 4.50 | 3.63 |
| PA-056 | 18.05 | 24.16 | 3.58 | 2.88 | 3.79 | 3.19 |
| PA-057 | 49.71 | 17.78 | 4.20 | 3.78 | 4.74 | 3.98 |
| PA-058 | 66.95 | 27.67 | 5.72 | 4.95 | 6.00 | 4.97 |
| PA-061 | 64.01 | 29.14 | 4.77 | 4.75 | 6.17 | 5.17 |
| PA-062 | 52.54 | 19.42 | 4.43 | 4.57 | 5.53 | 4.53 |
| PA-064 | 51.61 | 18.66 | 4.34 | 4.33 | 5.91 | 4.85 |
| PA-065 | 75.78 | 19.12 | 5.12 | 5.54 | 6.50 | 5.77 |
| PA-067 | 112.73 | 21.10 | 5.17 | 5.11 | 6.40 | 5.93 |
| PA-068 | 35.93 | 18.88 | 4.73 | 3.67 | 5.27 | 3.93 |
| PA-069 | 104.10 | 19.22 | 5.41 | 6.21 | 6.31 | 6.73 |
| PA-070 | 116.03 | 31.55 | 5.00 | 6.03 | 5.90 | 6.10 |
| PA-071 | 87.38 | 32.62 | 5.05 | 5.39 | 5.95 | 5.58 |
| PA-074 | 44.66 | 22.99 | 5.37 | 3.88 | 7.57 | 4.20 |
| PA-075 | 58.76 | 32.01 | 4.52 | 4.40 | 5.40 | 4.46 |
| PA-076 | 32.66 | 15.83 | 3.91 | 3.75 | 4.94 | 4.14 |
| PA-078 | 28.03 | 11.86 | 3.78 | 3.64 | 5.57 | 4.75 |
| PA-079 | 21.34 | 17.87 | 3.25 | 2.92 | 4.03 | 3.60 |
| PA-082 | 21.92 | 6.37 | 3.37 | 3.05 | 6.27 | 3.40 |
| PA-083 | 99.52 | 32.41 | 5.55 | 6.78 | 6.37 | 5.48 |
| PA-084 | 90.80 | 26.67 | 4.70 | 5.47 | 5.07 | 5.67 |
| PA-085 | 78.80 | 16.56 | 5.30 | 5.29 | 5.91 | 5.51 |
| PA-086 | 150.67 | 28.65 | 6.00 | 6.23 | 7.23 | 6.73 |
| PA-088 | 80.59 | 26.62 | 5.09 | 5.26 | 6.44 | 5.46 |
| PA-089 | 68.43 | 17.24 | 7.27 | 4.59 | 7.67 | 4.53 |
| PA-090 | 60.93 | 11.78 | 4.90 | 5.10 | 6.73 | 5.27 |
| PA-091 | 49.30 | 20.28 | 3.81 | 4.50 | 4.60 | 4.58 |
| PA-092 | 53.20 | 17.95 | 5.05 | 4.34 | 5.20 | 4.48 |
| PA-093 | 26.93 | 15.69 | 3.54 | 3.42 | 4.52 | 3.77 |
| PA-094 | 78.05 | 23.80 | 5.31 | 5.20 | 6.33 | 5.37 |
| PA-095 | 58.90 | 23.89 | 4.63 | 4.65 | 5.00 | 4.87 |
| PA-096 | 54.35 | 27.45 | 4.33 | 4.28 | 4.33 | 3.93 |
| PA-097 | 94.95 | 28.81 | 6.50 | 5.37 | 7.17 | 5.50 |
| PA-098 | 51.64 | 19.59 | 4.92 | 4.28 | 5.47 | 4.53 |
| PA-099 | 48.34 | 17.78 | 4.73 | 4.26 | 5.43 | 4.40 |
| PA-100 | 70.32 | 24.60 | 6.32 | 4.71 | 7.27 | 5.27 |
| PA-101 | 83.17 | 30.77 | 4.51 | 5.52 | 5.21 | 5.79 |
| PA-102 | 130.92 | 14.03 | 8.60 | 6.25 | 10.44 | 6.33 |
| PA-103 | 93.54 | 16.54 | 6.31 | 5.39 | 7.43 | 6.02 |
| Mean | 63.65 | 20.09 | 4.90 | 4.60 | 5.86 | 4.87 |
| Maximum | 150.67 | 32.62 | 8.60 | 6.78 | 12.02 | 6.73 |
| Minimum | 18.05 | 6.37 | 2.88 | 2.88 | 3.68 | 3.19 |
| SE(m)± | 4.76 | 1.37 | 0.21 | 0.22 | 0.25 | 0.18 |
| CD @ 5% | 13.186 | 3.784 | 0.579 | 0.615 | 0.696 | 0.504 |
| CV (%) | 12.947 | 11.784 | 7.310 | 8.339 | 7.399 | 6.504 |

**Table S7. Variability for antioxidants activity, total phenols, oil content and crude fibre in avocado accessions**

| **Acc. No.** | **FRAP activity mg AEAC/100g** | **Total phenols**  **mg GAE/100g** | **Oil content in fresh pulp (%)** | **Crude fiber (%)** |
| --- | --- | --- | --- | --- |
| PA-001 | 49.75 | 79.23 | 12.59 | 11.60 |
| PA-002 | 60.01 | 94.78 | 9.05 | 12.30 |
| PA-003 | 64.54 | 130.74 | 11.39 | 13.21 |
| PA-004 | 56.74 | 95.77 | 12.40 | 14.25 |
| PA-005 | 49.70 | 72.87 | 8.85 | 12.37 |
| PA-006 | 61.60 | 91.01 | 9.54 | 13.88 |
| PA-007 | 50.04 | 95.39 | 12.27 | 16.72 |
| PA-008 | 52.35 | 100.38 | 9.64 | 13.38 |
| PA-009 | 49.52 | 91.77 | 10.26 | 14.10 |
| PA-010 | 45.00 | 44.45 | 8.82 | 12.76 |
| PA-011 | 38.87 | 40.42 | 9.65 | 9.06 |
| PA-012 | 36.29 | 53.18 | 8.14 | 10.92 |
| PA-013 | 82.26 | 122.36 | 7.22 | 8.85 |
| PA-015 | 72.11 | 134.17 | 9.38 | 13.55 |
| PA-016 | 39.03 | 31.50 | 7.56 | 15.51 |
| PA-017 | 48.26 | 76.64 | 9.49 | 7.10 |
| PA-018 | 38.69 | 95.27 | 12.39 | 12.61 |
| PA-019 | 35.77 | 28.91 | 6.52 | 11.51 |
| PA-020 | 51.16 | 33.83 | 6.50 | 13.40 |
| PA-021 | 40.92 | 23.65 | 6.35 | 13.60 |
| PA-022 | 72.16 | 148.26 | 9.05 | 11.16 |
| PA-023 | 52.89 | 66.97 | 6.86 | 18.70 |
| PA-024 | 64.54 | 92.72 | 9.54 | 15.92 |
| PA-025 | 62.17 | 70.01 | 14.26 | 19.65 |
| PA-026 | 87.32 | 102.24 | 8.23 | 12.50 |
| PA-027 | 66.53 | 47.50 | 12.99 | 16.86 |
| PA-028 | 41.20 | 79.92 | 16.15 | 15.96 |
| PA-029 | 28.61 | 45.25 | 15.47 | 16.05 |
| PA-034 | 69.44 | 92.83 | 9.40 | 11.15 |
| PA-036 | 95.73 | 118.89 | 6.17 | 12.00 |
| PA-037 | 59.18 | 128.19 | 6.23 | 13.26 |
| PA-038 | 51.87 | 82.17 | 6.34 | 16.65 |
| PA-042 | 55.17 | 54.32 | 20.14 | 9.06 |
| PA-043 | 60.87 | 79.04 | 24.38 | 15.10 |
| PA-044 | 115.29 | 112.11 | 25.49 | 15.31 |
| PA-045 | 40.40 | 84.30 | 22.63 | 9.76 |
| PA-046 | 47.22 | 104.11 | 22.81 | 16.16 |
| PA-047 | 34.79 | 51.81 | 10.19 | 10.25 |
| PA-048 | 36.46 | 59.88 | 16.11 | 14.45 |
| PA-049 | 57.27 | 79.20 | 14.18 | 11.94 |
| PA-050 | 52.73 | 45.41 | 6.51 | 14.65 |
| PA-051 | 104.60 | 56.38 | 9.18 | 15.71 |
| PA-052 | 57.34 | 47.88 | 22.39 | 14.20 |
| PA-053 | 27.65 | 112.03 | 9.06 | 15.04 |
| PA-055 | 63.65 | 64.57 | 14.88 | 10.51 |
| PA-056 | 47.69 | 36.83 | 19.27 | 17.21 |
| PA-057 | 56.31 | 41.33 | 20.94 | 19.45 |
| PA-058 | 56.68 | 52.53 | 15.99 | 8.31 |
| PA-061 | 95.37 | 65.67 | 15.02 | 10.00 |
| PA-062 | 66.32 | 41.33 | 6.59 | 13.37 |
| PA-064 | 70.42 | 50.40 | 10.28 | 12.43 |
| PA-065 | 63.40 | 52.68 | 8.51 | 9.62 |
| PA-067 | 103.03 | 62.66 | 13.70 | 20.75 |
| PA-068 | 58.98 | 80.64 | 11.90 | 11.37 |
| PA-069 | 53.37 | 24.76 | 13.79 | 14.15 |
| PA-070 | 84.58 | 59.08 | 11.53 | 13.20 |
| PA-071 | 61.70 | 52.19 | 7.79 | 15.00 |
| PA-074 | 57.16 | 67.43 | 5.86 | 16.27 |
| PA-075 | 110.71 | 75.04 | 7.96 | 11.21 |
| PA-076 | 59.44 | 37.79 | 11.97 | 11.25 |
| PA-078 | 112.14 | 58.05 | 13.74 | 11.72 |
| PA-079 | 98.04 | 51.31 | 15.96 | 10.60 |
| PA-082 | 103.09 | 72.45 | 11.13 | 11.23 |
| PA-083 | 100.72 | 44.87 | 5.44 | 15.65 |
| PA-084 | 74.55 | 41.41 | 13.58 | 19.69 |
| PA-085 | 118.57 | 77.10 | 4.91 | 11.20 |
| PA-086 | 156.29 | 84.87 | 13.58 | 8.10 |
| PA-088 | 145.93 | 85.86 | 14.08 | 14.90 |
| PA-089 | 98.19 | 74.17 | 6.43 | 13.42 |
| PA-090 | 85.42 | 42.70 | 9.53 | 9.15 |
| PA-091 | 105.56 | 59.23 | 18.48 | 12.00 |
| PA-092 | 58.59 | 47.46 | 5.88 | 16.54 |
| PA-093 | 62.97 | 38.81 | 9.24 | 13.74 |
| PA-094 | 83.56 | 74.59 | 7.54 | 12.68 |
| PA-095 | 76.28 | 71.16 | 12.37 | 8.65 |
| PA-096 | 106.31 | 59.58 | 19.42 | 13.45 |
| PA-097 | 77.04 | 54.89 | 5.23 | 7.90 |
| PA-098 | 84.79 | 68.80 | 8.32 | 10.20 |
| PA-099 | 72.86 | 26.81 | 5.52 | 6.85 |
| PA-100 | 86.89 | 58.51 | 7.24 | 14.65 |
| PA-101 | 105.87 | 85.29 | 14.23 | 9.45 |
| PA-102 | 90.81 | 68.80 | 11.57 | 12.80 |
| PA-103 | 75.21 | 49.52 | 10.02 | 15.25 |
| Average | 68.53 | 69.38 | 11.46 | 13.08 |
| Maximum | 119.81 | 148.26 | 25.49 | 20.75 |
| Minimum | 27.65 | 23.65 | 4.91 | 6.85 |
| SE(m)± | 3.545 | 2.88 | 0.66 | 0.42 |
| CD @ 5% | 9.91 | 8.05 | 1.85 | 1.871 |
| CV (%) | 8.96 | 7.19 | 8.15 | 5.435 |

**Table S8. Variability for carotenoids, TSS, moisture and dry matter content of pulp in avocado accessions**

| **Acc. No.** | **Total carotenoids**  **mg /100g** | **TSS (o Brix)** | **Moisture content**  **(%)** | **Dry matter content (%)** |
| --- | --- | --- | --- | --- |
| PA-001 | 2.81 | 7.97 | 77.88 | 22.13 |
| PA-002 | 1.12 | 5.47 | 81.97 | 18.04 |
| PA-003 | 2.52 | 7.77 | 80.18 | 19.83 |
| PA-004 | 3.58 | 6.70 | 80.64 | 19.37 |
| PA-005 | 2.14 | 7.63 | 83.27 | 16.73 |
| PA-006 | 2.75 | 8.07 | 82.82 | 17.19 |
| PA-007 | 3.49 | 8.37 | 80.29 | 19.71 |
| PA-008 | 3.20 | 6.93 | 81.90 | 18.11 |
| PA-009 | 2.82 | 6.13 | 81.75 | 18.25 |
| PA-010 | 3.49 | 9.07 | 84.08 | 15.92 |
| PA-011 | 2.56 | 7.13 | 79.76 | 20.25 |
| PA-012 | 2.63 | 6.80 | 83.37 | 16.64 |
| PA-013 | 1.56 | 7.73 | 85.45 | 14.55 |
| PA-015 | 3.78 | 7.17 | 83.41 | 16.59 |
| PA-016 | 1.99 | 4.83 | 85.02 | 14.99 |
| PA-017 | 1.12 | 7.47 | 82.63 | 17.38 |
| PA-018 | 2.18 | 6.60 | 81.59 | 18.41 |
| PA-019 | 0.96 | 5.27 | 85.77 | 14.23 |
| PA-020 | 2.47 | 7.47 | 82.99 | 17.01 |
| PA-021 | 1.08 | 5.90 | 82.91 | 17.09 |
| PA-022 | 1.16 | 6.33 | 84.68 | 15.32 |
| PA-023 | 1.86 | 6.87 | 83.95 | 16.06 |
| PA-024 | 3.19 | 4.70 | 83.22 | 16.79 |
| PA-025 | 1.21 | 6.17 | 80.38 | 19.63 |
| PA-026 | 7.17 | 8.20 | 81.54 | 18.47 |
| PA-027 | 5.43 | 5.77 | 76.58 | 23.42 |
| PA-028 | 3.65 | 5.40 | 74.96 | 25.05 |
| PA-029 | 2.40 | 7.77 | 79.42 | 20.59 |
| PA-034 | 2.61 | 8.20 | 80.17 | 19.84 |
| PA-036 | 1.42 | 6.07 | 85.35 | 14.65 |
| PA-037 | 2.62 | 5.73 | 85.25 | 14.76 |
| PA-038 | 1.83 | 10.97 | 84.41 | 15.59 |
| PA-042 | 1.94 | 7.27 | 69.67 | 30.33 |
| PA-043 | 4.37 | 7.47 | 67.36 | 32.64 |
| PA-044 | 3.13 | 9.23 | 63.07 | 36.93 |
| PA-045 | 1.96 | 8.97 | 66.39 | 33.62 |
| PA-046 | 1.24 | 7.57 | 67.11 | 32.90 |
| PA-047 | 1.17 | 8.23 | 75.81 | 24.20 |
| PA-048 | 1.62 | 9.13 | 73.00 | 27.01 |
| PA-049 | 2.60 | 8.83 | 77.86 | 22.14 |
| PA-050 | 2.33 | 4.23 | 83.25 | 16.76 |
| PA-051 | 1.12 | 6.37 | 83.08 | 16.93 |
| PA-052 | 3.84 | 6.10 | 71.63 | 28.38 |
| PA-053 | 3.60 | 10.17 | 82.58 | 17.43 |
| PA-055 | 2.45 | 7.17 | 73.24 | 26.76 |
| PA-056 | 2.21 | 6.83 | 69.91 | 30.09 |
| PA-057 | 3.48 | 6.73 | 70.55 | 29.45 |
| PA-058 | 2.13 | 5.20 | 73.66 | 26.35 |
| PA-061 | 1.74 | 5.07 | 73.68 | 26.33 |
| PA-062 | 2.28 | 7.33 | 83.19 | 16.81 |
| PA-064 | 2.14 | 4.53 | 78.52 | 21.48 |
| PA-065 | 1.08 | 3.87 | 82.70 | 17.30 |
| PA-067 | 5.96 | 5.57 | 75.94 | 24.06 |
| PA-068 | 3.30 | 6.03 | 79.88 | 20.13 |
| PA-069 | 3.35 | 5.37 | 77.63 | 22.37 |
| PA-070 | 4.34 | 4.53 | 77.00 | 23.00 |
| PA-071 | 2.61 | 5.07 | 83.44 | 16.56 |
| PA-074 | 1.97 | 6.27 | 86.96 | 13.04 |
| PA-075 | 4.51 | 6.40 | 83.36 | 16.64 |
| PA-076 | 3.43 | 4.70 | 74.61 | 25.39 |
| PA-078 | 3.95 | 5.83 | 79.81 | 20.19 |
| PA-079 | 2.91 | 8.87 | 72.89 | 27.11 |
| PA-082 | 5.86 | 7.67 | 78.41 | 21.59 |
| PA-083 | 2.59 | 6.47 | 84.71 | 15.30 |
| PA-084 | 4.61 | 10.60 | 77.27 | 22.73 |
| PA-085 | 3.09 | 7.43 | 86.53 | 13.47 |
| PA-086 | 5.97 | 9.90 | 74.71 | 25.30 |
| PA-088 | 5.62 | 9.33 | 74.85 | 25.16 |
| PA-089 | 3.17 | 5.53 | 85.29 | 14.72 |
| PA-090 | 3.80 | 8.50 | 80.61 | 19.40 |
| PA-091 | 3.46 | 9.53 | 69.67 | 30.34 |
| PA-092 | 2.39 | 5.77 | 85.99 | 14.01 |
| PA-093 | 2.37 | 9.70 | 82.31 | 17.70 |
| PA-094 | 3.79 | 5.43 | 84.14 | 15.86 |
| PA-095 | 4.72 | 7.33 | 77.85 | 22.15 |
| PA-096 | 6.74 | 6.93 | 69.66 | 30.34 |
| PA-097 | 1.93 | 6.17 | 86.83 | 13.17 |
| PA-098 | 2.41 | 4.63 | 83.85 | 16.16 |
| PA-099 | 1.60 | 5.37 | 86.74 | 13.26 |
| PA-100 | 1.38 | 3.83 | 86.15 | 13.86 |
| PA-101 | 3.60 | 9.20 | 73.77 | 26.23 |
| PA-102 | 3.24 | 4.03 | 81.56 | 18.45 |
| PA-103 | 1.73 | 7.80 | 77.12 | 22.89 |
| Mean | **2.89** | **6.90** | **79.44** | **20.56** |
| Maximum | 7.17 | 10.97 | 86.96 | 36.93 |
| Minimum | 0.96 | 3.83 | 63.07 | 13.04 |
| SE(m)± | 0.091 | 0.163 | 0.778 | 0.778 |
| CD @ 5% | 0.26 | 0.46 | 2.18 | 2.18 |
| CV (%) | 5.49 | 4.10 | 1.38 | 5.35 |