TABLE S1. Validation data of HPTLC method for the estimation of maslinic acid.

|  |  |
| --- | --- |
| Intermediate precision (% RSD, n=6) | 0.82 |
| Calibration range (ng per spot) | 150-750 |
| Regression equation | Y= 29.616 + 0.343\*X |
| Correlation coefficient | 0.9903 |
| Repeatability of Standards (% RSD , n = 6) | 0.97 |
| Repeatability of Samples (% RSD, n = 6) | 0.93 |
| Limit of Detection (LOD) (ng per spot) | 30 |
| Limit of Quantitation (LOQ) (ng per spot) | 87 |
| Robustness (% RSD, n = 3) | 0.89 |

TABLE S2: Study of intra-day and inter-day precision for maslinic acid

|  |  |  |
| --- | --- | --- |
| Concentration (ng per band) | Intra-day (% *RSD*, n=6) | Inter-day (% *RSD*, n=6) |
| 150 | 2.89 | 3.17 |
| 450 | 3.41 | 4.09 |
| 750 | 1.15 | 2.87 |

TABLE S3: Accuracy of the method for maslinic acid

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample Extract | Amount of maslinic acid (ng)a | | | Recovery (%)a | Average Recovery (%)a |
| sample | Added | In mixture |
| *Umaran* | 640 ± 20.89 | 320 | 948 ± 11.28 | 98.75 | 97.41 |
| 640 ± 20.89 | 640 | 1260 ± 15.01 | 96.88 |
| 640 ± 20.89 | 960 | 1855 ± 13.45 | 96.61 |
| *Chhuhara* | 455 ± 25.66 | 227.5 | 623 ± 8.89 | 91.35 | 93.69 |
| 455 ± 25.66 | 455 | 870 ± 10.03 | 95.60 |
| 455 ± 25.66 | 682 | 1070 ± 12.21 | 94.11 |
| *Gola* | 670 ± 15.42 | 335 | 941 ± 10.74 | 96.62 | 94.37 |
| 670 ± 15.42 | 670 | 1263 ± 17.28 | 94.25 |
| 670 ± 15.42 | 1005 | 1545 ± 23.08 | 92.24 |
| *Sannur* | 647 ± 19.25 | 323.5 | 903 ± 21.89 | 93.09 | 94.61 |
| 647 ± 19.25 | 647 | 1263 ± 17.28 | 93.35 |
| 647 ± 19.25 | 970 .5 | 1575 ± 13.09 | 97.40 |
| *Mehrun* | 651 ± 27.01 | 325.5 | 913 ± 14.45 | 93.55 | 96.10 |
| 651 ± 27.01 | 651 | 1270 ± 11.56 | 97.54 |
| 651 ± 27.01 | 976.5 | 1582 ± 22.81 | 97.20 |
| Wild | 215 ± 25.43 | 107.5 | 297 ± 16.18 | 92.07 | 93.22 |
| 215 ± 25.43 | 215 | 397 ± 12.43 | 92.33 |
| 215 ± 25.43 | 322.5 | 512 ± 14.09 | 95.26 |
| *Kadaka* | 222 ± 17.34 | 111 | 312 ± 9.45 | 93.69 | 95.32 |
| 222 ± 17.34 | 222 | 428 ± 10.89 | 96.40 |
| 222 ± 17.34 | 333 | 532 ± 9.42 | 95.86 |
| *Apple* | 202 ± 17.05 | 101 | 282 ± 11.32 | 93.07 | 95.08 |
| 202 ± 17.05 | 202 | 386 ± 8.93 | 95.54 |
| 202 ± 17.05 | 303 | 488 ± 10.43 | 96.63 |

a Mean ± SD (n=3).

FIGURE S1: HPTLC estimation of maslinic acid, A: Linear range of calibration plots for maslinic acid; B) Chromatograph of maslinic acid; C) Overlaid spectra of standard maslinic acid and sample of jujube.

