

**Figure 1.** Kepel seeds powder

 

(a)

(b)

**Figure 2**. FTIR graph of flavonoid cmpound (a) 1 hr extraction (b) 2 hr extraction

**Table 1.** Flavonoid compound of extracted kepel seeds

|  |  |  |
| --- | --- | --- |
| Ethanol (%) | Yield (%) | |
| 1 hr | 2 hr |
| 10 | 18.4 | 19.2 |
| 30 | 14.2 | 14.6 |
| 50 | 13.4 | 7.8 |
| 70 | 4 | 4 |
| 90 | 3.6 | 2.2 |



**Figure 3.** Total flavonoid of kepel seeds in the variation of ethanol concentration

**Table 2**. Water content of flavonoid encapsulation

|  |  |  |
| --- | --- | --- |
| Ethanol (%) | Water content (%) | |
| 1 hr | 2 hr |
| 10 | 8.91 | 5.26 |
| 30 | 8.97 | 7.59 |
| 50 | 6.94 | 7.14 |
| 70 | 4.76 | 4.76 |
| 90 | 5.26 | 8.33 |