**Supplementary Table 1.** Target compounds, reagents used in histochemical tests, expected results and authors of the methodology

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Target compound | | Reagent | Author | Expected Result |
| Lipids | Total lipids | Sudan III | Pearse (1985) | Orange to red |
| Total lipids (fats, oils, waxes, free fatty acids, phospholipids) | Sudan Black B | Johansen (1940) | Blue to black |
| Neutral (fats, oils and waxes) and acidic lipids(free fatty acids and phospholipids)- | Nile blue | Cain (1947) | Neutral lipids -pink to red; acidic lipids blue |
| Terpenoids | Essential oils | Nadi reagent | David & Carde (1964) | Essential oils violet-blue; resin acids red |
| Steroids | Antimony trichloride | Hardman & Sofowora (1972) | Red |
| Total proteins | Proteins | Acid fuchsin | Feder & O'Brien (1968) | Pink-red |
| Proteins | Naphthol blue black (Amido black 10B ) | Fisher (1968) | Blue-black |
| Polysaccharides | Starch | Lugol | Johansen (1940) |  |
| Pectins | Toluidin blue | O’Brien *et al.* (1964) | Pink to purple |
| Phenolic compounds | Lignin/tanins | hydrochloric phloroglucinol | Jensen (1962) | Red–violet |
| Polyphenols (lignin/ tannins) | Toluidin blue | O’Brien *et al.* (1964) | Blue to green |
| Phenolic compounds | autofluorescence of non-stained sections under UV light | Demarco (2017) | Light blue |
| Flavonoids | Aluminium trichloride under UV light | Guerin *et al.* (1971) | Yellow |

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