

Contents

Introduction	4
1 Optical methods	5
1.1 UV-VIS spectrometry	5
1.1.1 Estimation of total carotenoid content	7
1.1.2 Estimation of chlorophyll a and chlorophyll b content	20
1.1.3 Estimation of total anthocyanins content	28
1.1.4 Estimation of antiradical activity by DPPH method	37
1.2 Refractometry.....	48
1.2.1 Determination of refractometric soluble solids (RSS).....	48
2 Separation methods.....	51
2.1 Determination of essential oils by using SFK 1 method, 1997 (Slovak Pharmacopoeia)	52
2.2 Determination of ascorbic acid by HPLC.....	59
3 Gravimetric methods.....	69
3.1 Gravimetric determination of dry matter.....	69
4 Mechanical properties of material	74
4.1 Material hardness.....	74
4.1.1 Measurement of hardness by using a penetrometer.....	74
5 Titration analyses	78
5.1 Acid-basic titration.....	80
5.1.1 Determination of titration acidity by STN560240-5.....	80
5.2 Oxidation-reduction titrations.....	85
5.2.1 Determination of vitamin C (ascorbic acid) content by titration method.....	86
References.....	94