VTU

Scheme of evaluation

1	a	Explain EXTRACTION OF RNA FROM SPINACH LEAVES	10M
		Solution: Extraction: The spinach leaves are homogenized in lysis buffer. 1ml of 2M sodium acetate is added and shaken well. To this, 2 ml mixture of chloroform and isoamyl alcohol in the ratio 49:1 is added and shaken vigorously for 5 mins. Keep the mixture in ice for 20 mins and then centrifuged at 10,000 rpm at 4°C. The aqueous layer is transferred to a fresh tube and equal volume of ice cold isopropanol is added. The mixture is kept at -20°C for 1 hour to precipitate RNA and centrifuged at 10,000 rpm for 20 mins. The supernatant is discarded. Equal volume of ice cold propanol is added to the pellet and kept at -20°C for 1 hour. It is then centrifuged at 10,000 rpm for 10 mins at 4°C to pellet out the RNA. The supernatant is discarded and RNA pellet is washed with 75% alcohol. Centrifuged and vacuum dried the pellet until the alcohol is completely evaporated. The pellet is stored at -20°C in TE buffer. The RNA obtained can be purified, weighed and estimated by orcinol method. Result: The presence of RNA is detected by orcinol test.	2M 2M 2M 2M 2M