

1/15

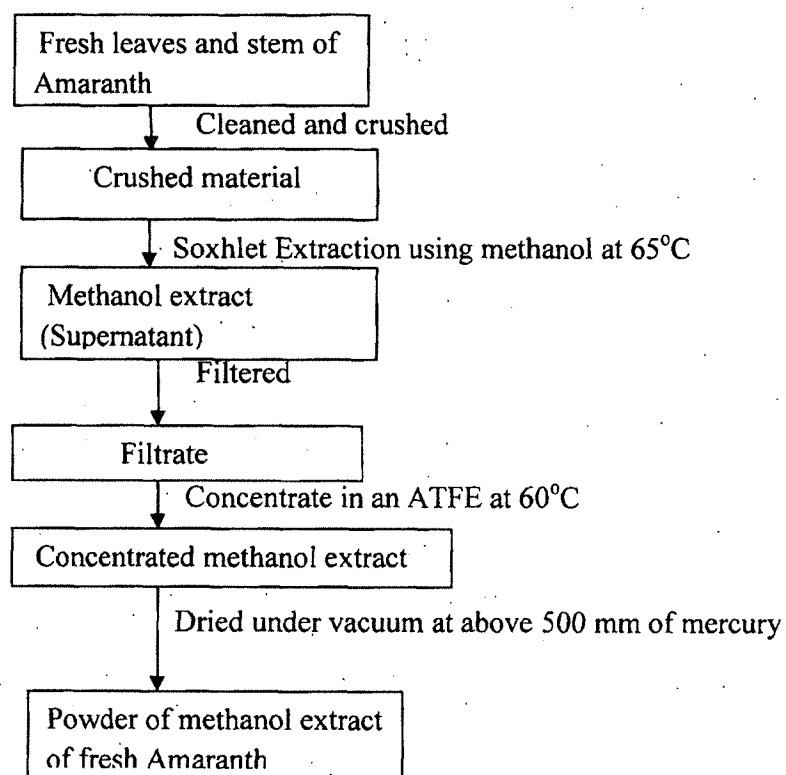


Fig. 1

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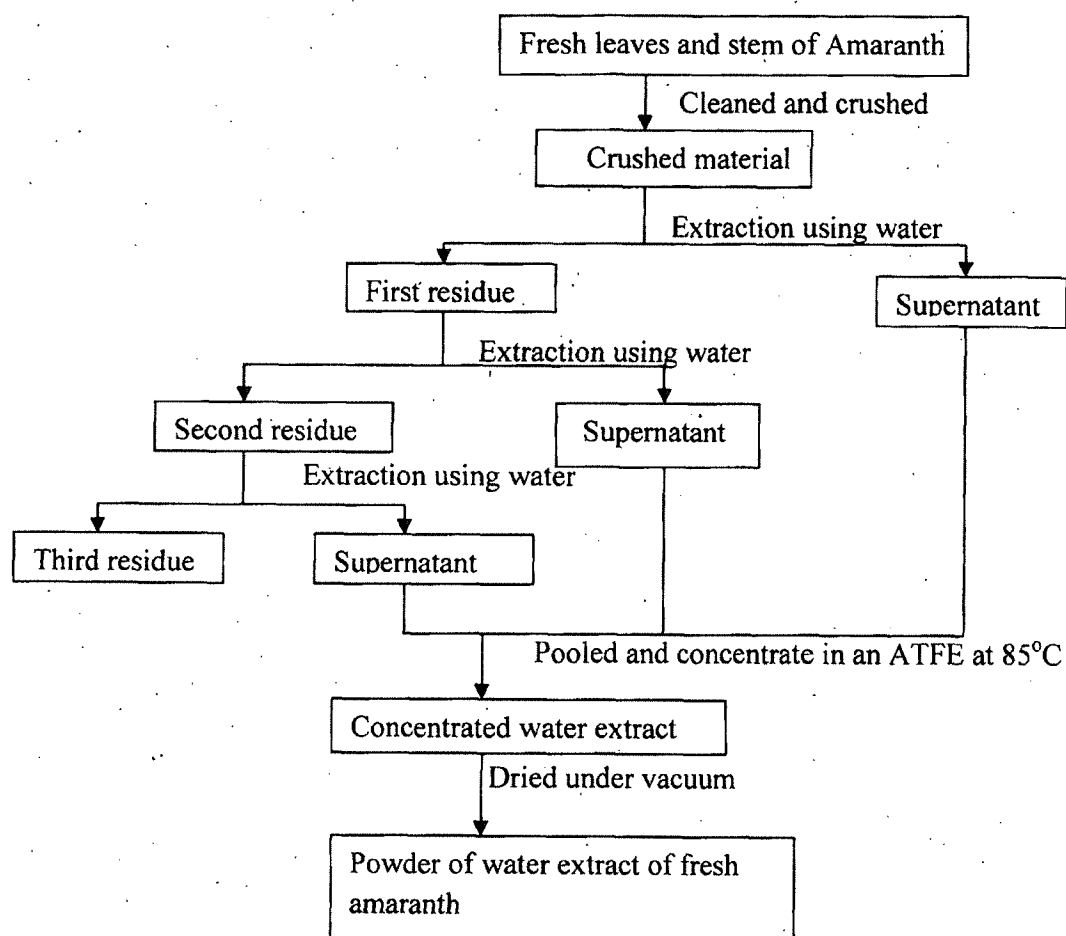


Fig. 2

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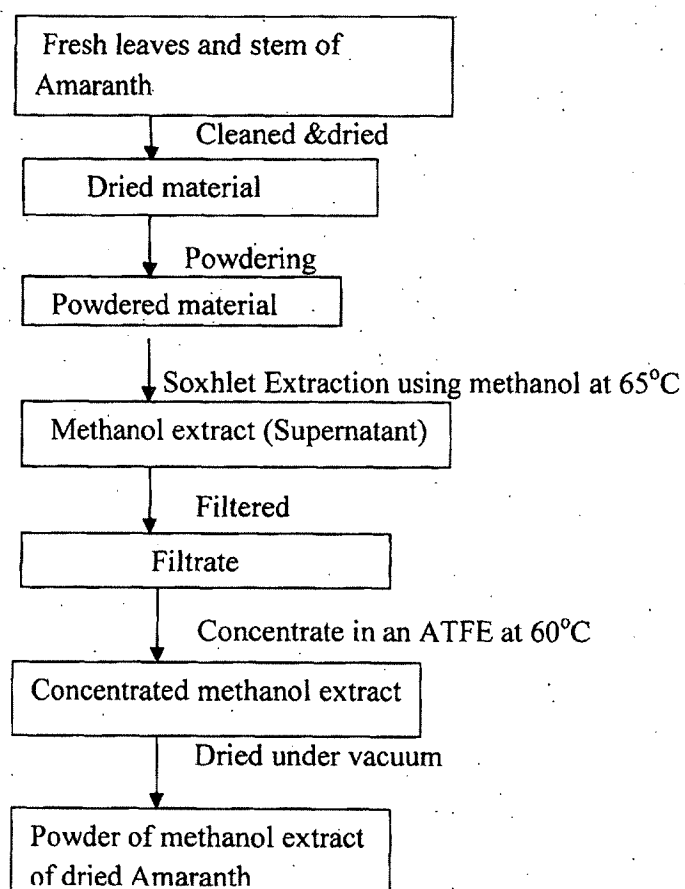


Fig. 3

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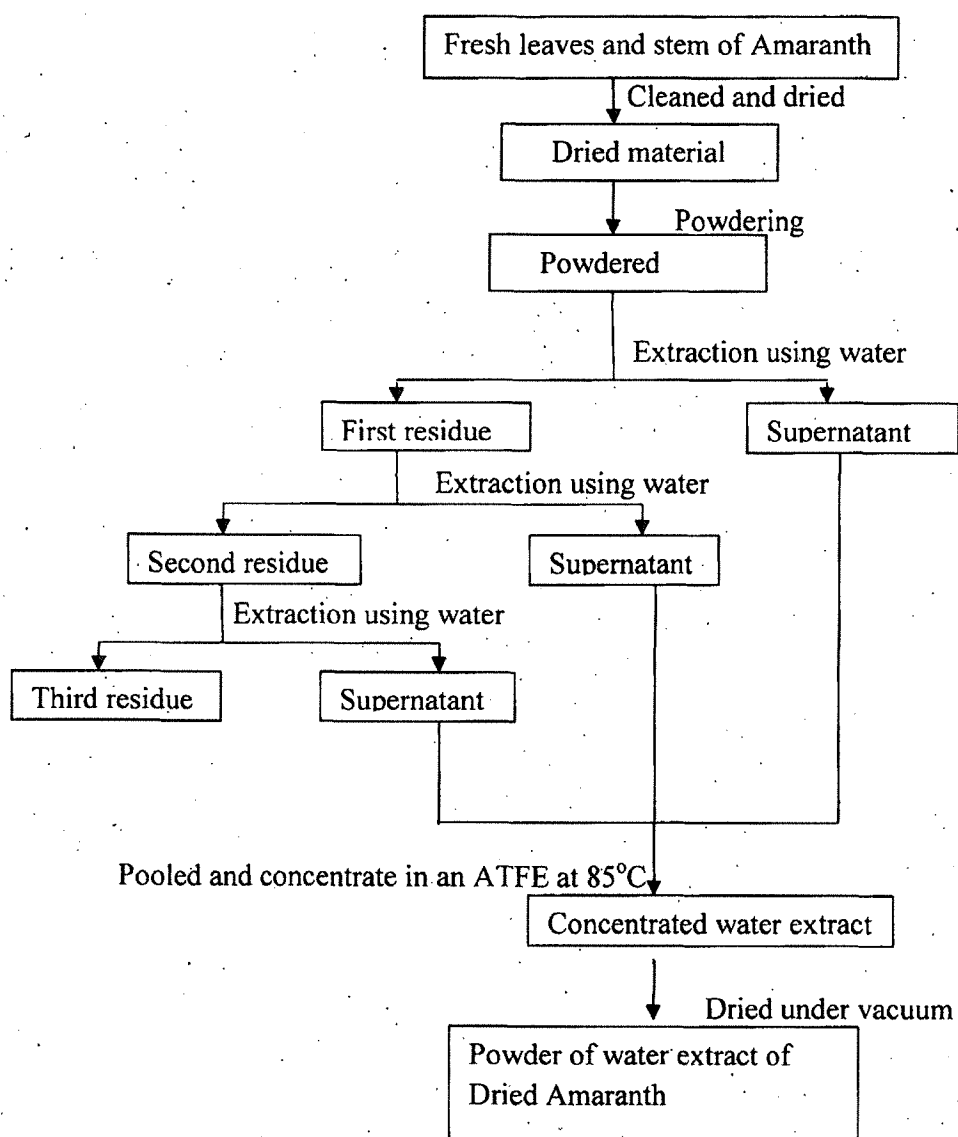


Fig. 4

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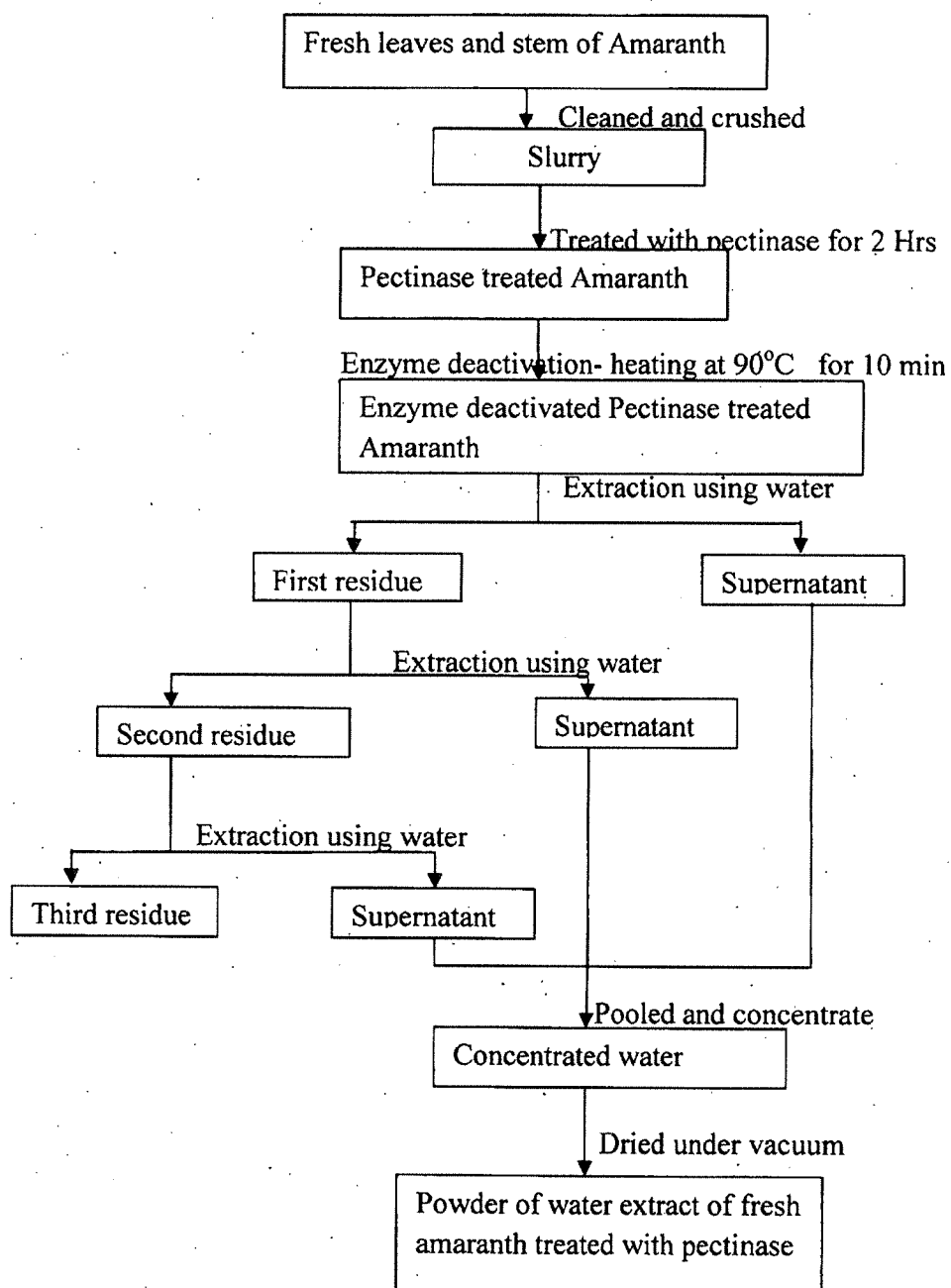


Fig. 5

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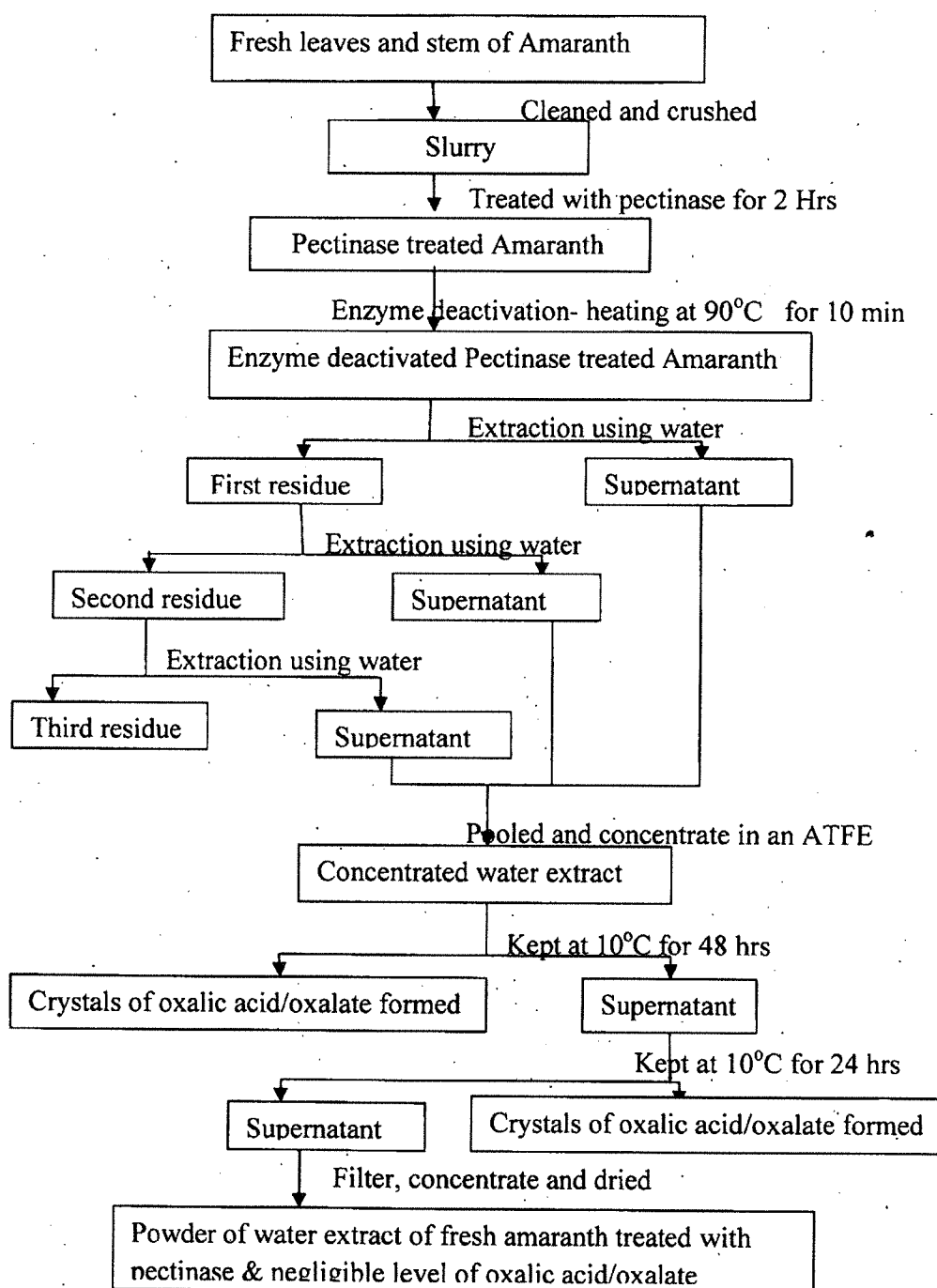


Fig. 6

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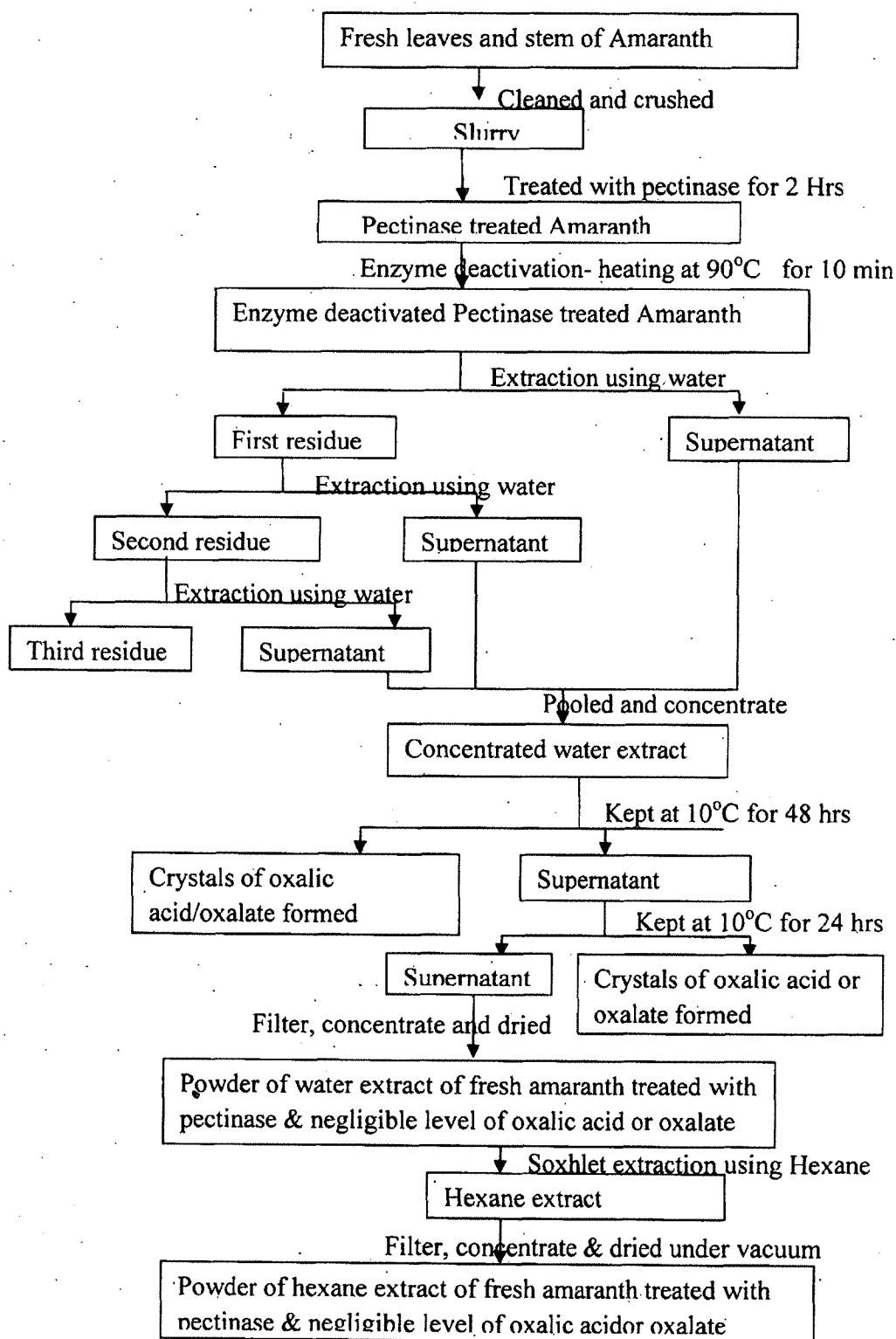


Fig. 7

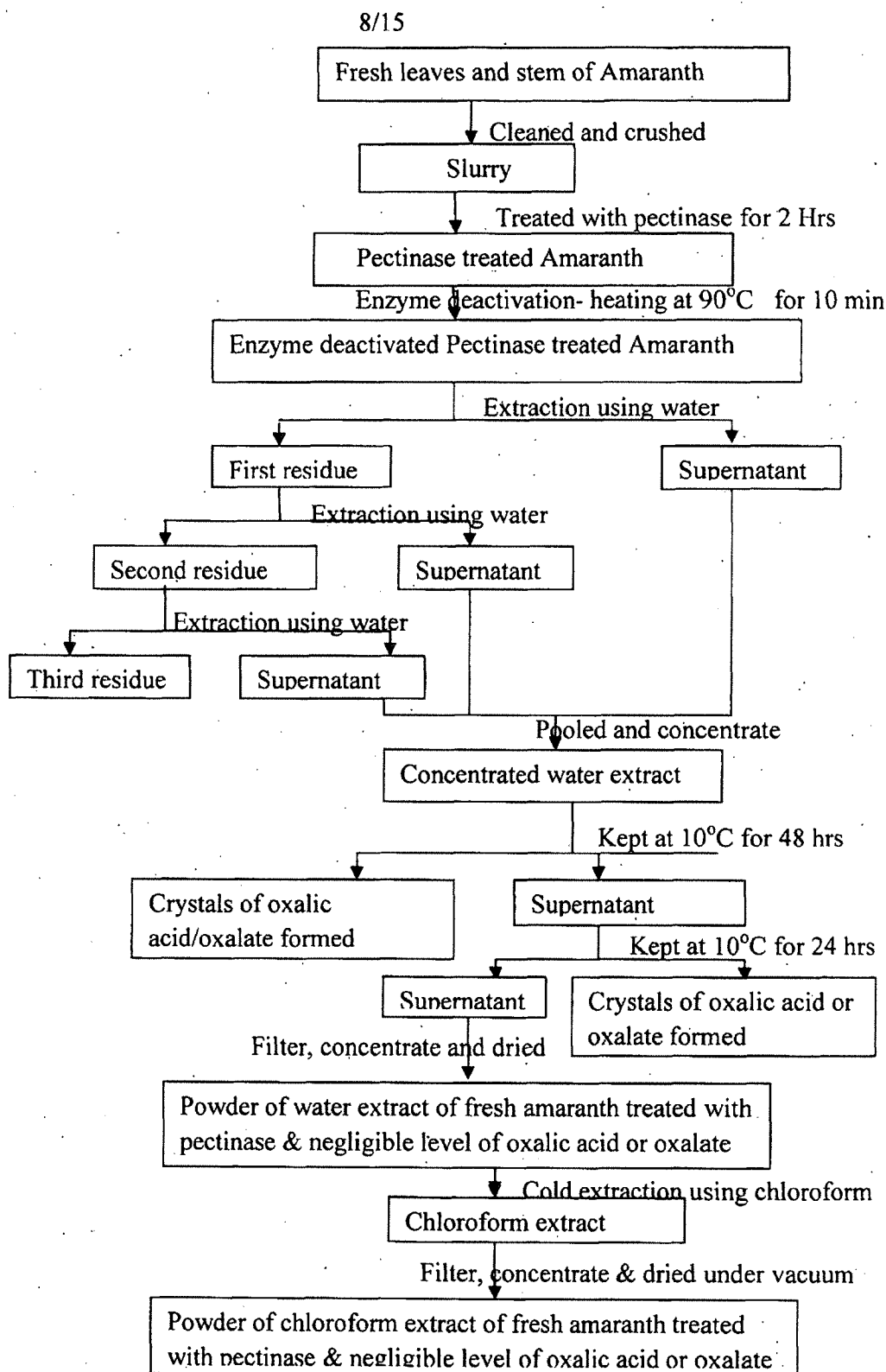


Fig. 8

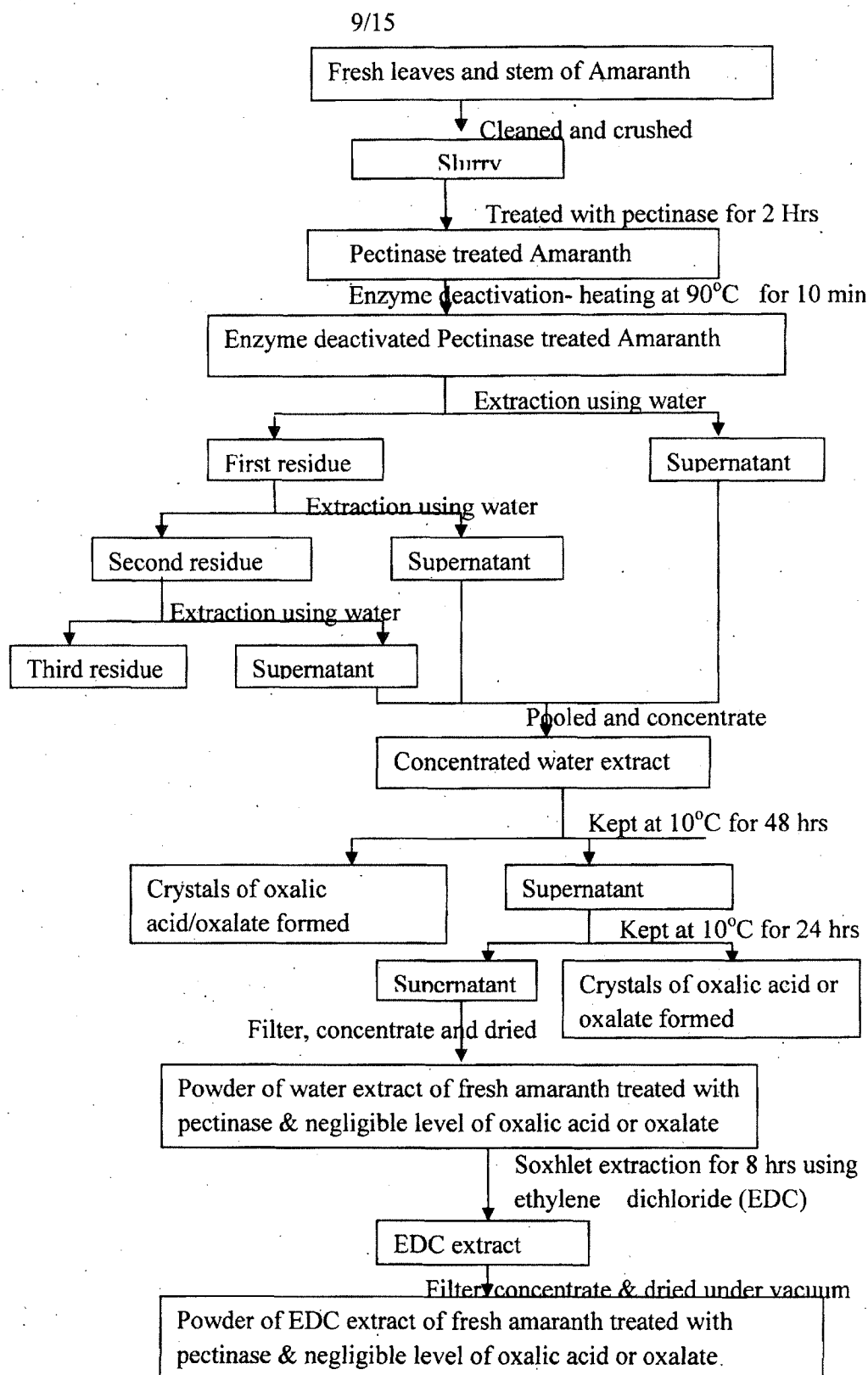


Fig. 9

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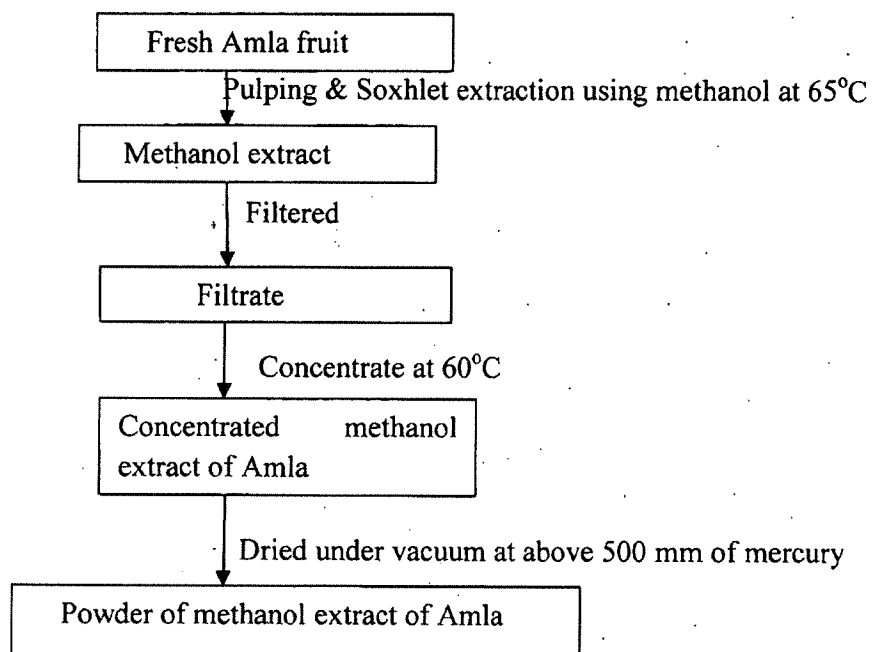


Fig. 10

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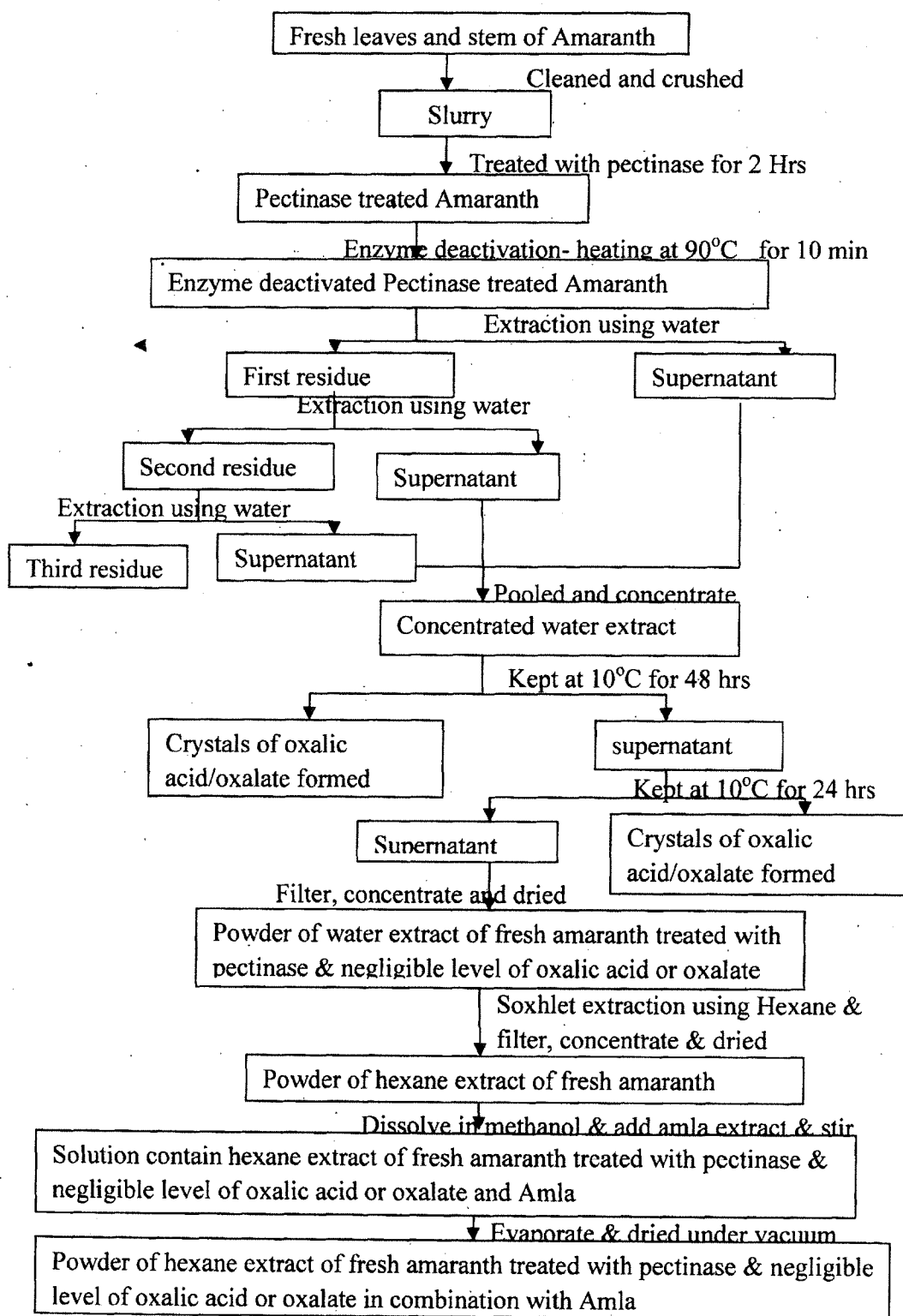
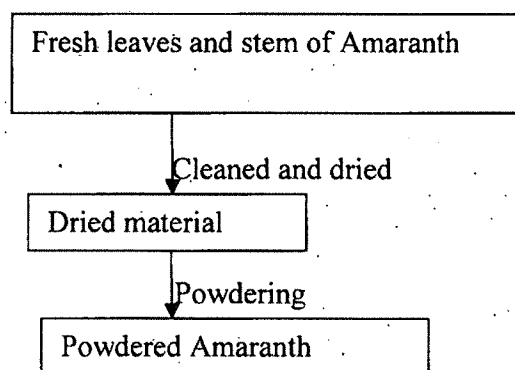


Fig. 11

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**Fig. 12**

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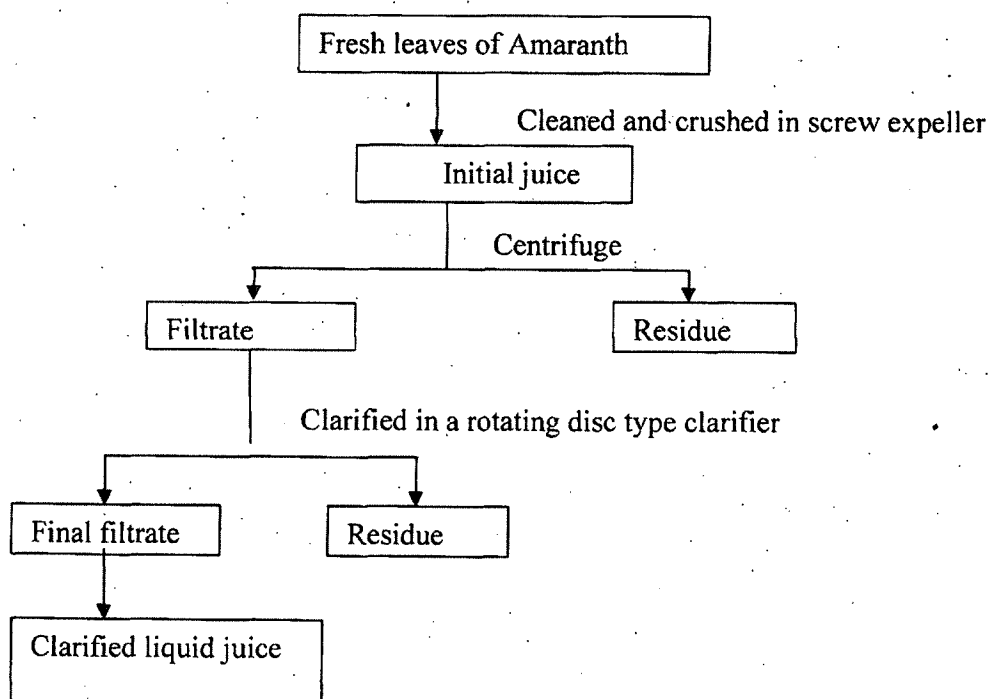


Fig. 13

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Raw material/ extract	% of extract	Nitr ate (%)	Oxalic acid (%)	Sapo nins (%)	Alkal oids (%)	Carbo hydra te (%)	Protein (%)	Flavo noids (%)	L arginine (%)	Potass ium (%)
Amaranth leaves	NA	1.5g/ Kg of leaves	1g/10 0g of leaves	1.68m g/100g of leaves	3.54m g/100g of leaves	5.5g/ 100g of leaves	5g/100 g of leaves	0.83m g/100 g of leaves	3.94g/1 00g protein	54.2m g/100 g of leaves
Fresh leaves 100Kg	NA	150g (0.1 5%)	1Kg (1%)	1.68g (0.001 68%)	3.54g (0.003 54%)	5.5Kg (5.5%)	5Kg (5%)	0.83g (0.000 83%)	197 g (0.19 7%)	54.2g (0.054 2%)
Methanol extract from fresh leaves [Eg. 1]	2	1.5	40	0.08	0.18	15	10	0.04	0.75	1.2
Water extract of fresh leaves [Eg. 2]	3	1.6	35	0.09	0.25	16.5	15	0.05	0.94	1.5
Methanol extract of dried leaves [Eg.3]	24	1.65	11	0.01	0.15	19.5	17.8	0.003	0.82	1.8
Water extract of dried leaves [Eg. 4]	25	1.7	10.5	0.02	0.01	18.3	16.6	0.004	0.66	1.95
Amaranth Juice [Eg. 13]	37.5	0.1	30	0.09	0.21	13.2	20	0.06	0.1	0.15
Pectinase treated water extract of fresh leaves of Amaranth [Eg. 5]	3.5	2	30.2	2.3	1.2	20.5	18.6	1.5	1.6	2.3
Oxalic acid free Amaranth extract [Eg. 6]	2.2	5	0.09	3.1	1.8	20.8	19.4	2.1	1.8	4.5

Fig. 14(Part A)

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Raw material/ extract	% of extract	Nitrate (%)	Oxalic acid (%)	Saponin s (%)	Alkal oids (%)	Carbo hydrate (%)	Prot ein (%)	Flavo noids (%)	L arginine (%)	Potass ium (%)
Amaranth leaves	NA	1.5g/ Kg of leaves	1g/1 00g of leaves	1.68m g/100g of leaves	3.54m g/100g of leaves	5.5g/ 100g of leaves	5g/10 0g of leaves	0.83m g/100 g of leaves	3.94g/1 00g protein	54.2m g/100 g of leaves
Enriched extract of Amaranth by extraction with hexane [Eg. 7]	1.6	18	0.09	8	4	24	22	6	3	17
Enriched extract of Amaranth by extraction with chloroform [Eg.8]	1.6	16	0.07	9	5.1	26	21	5.3	4	15
Enriched extract of Amaranth by extraction with ethylene dichloride [Eg.9]	1.6	17	0.08	7	4.3	23	22	6.9	6	16
Amaranth extract enriched with Amla extract [Eg. 11]	NA	17	0.08	8.2	3.6	22.7	20.9	5.5	2.7	17
Preparation of fast dissolving 200 mg tablets[Eg 21]	40	7.2	0.04	3.2	1.6	9.6	8.8	2.4	1.2	6.8
Preparation of fast dissolving 1250 mg tablets[Eg. 22]	40	7.2	0.04	3.2	1.6	9.6	8.8	2.4	1.2	6.8

Fig. 14 (Part B)