

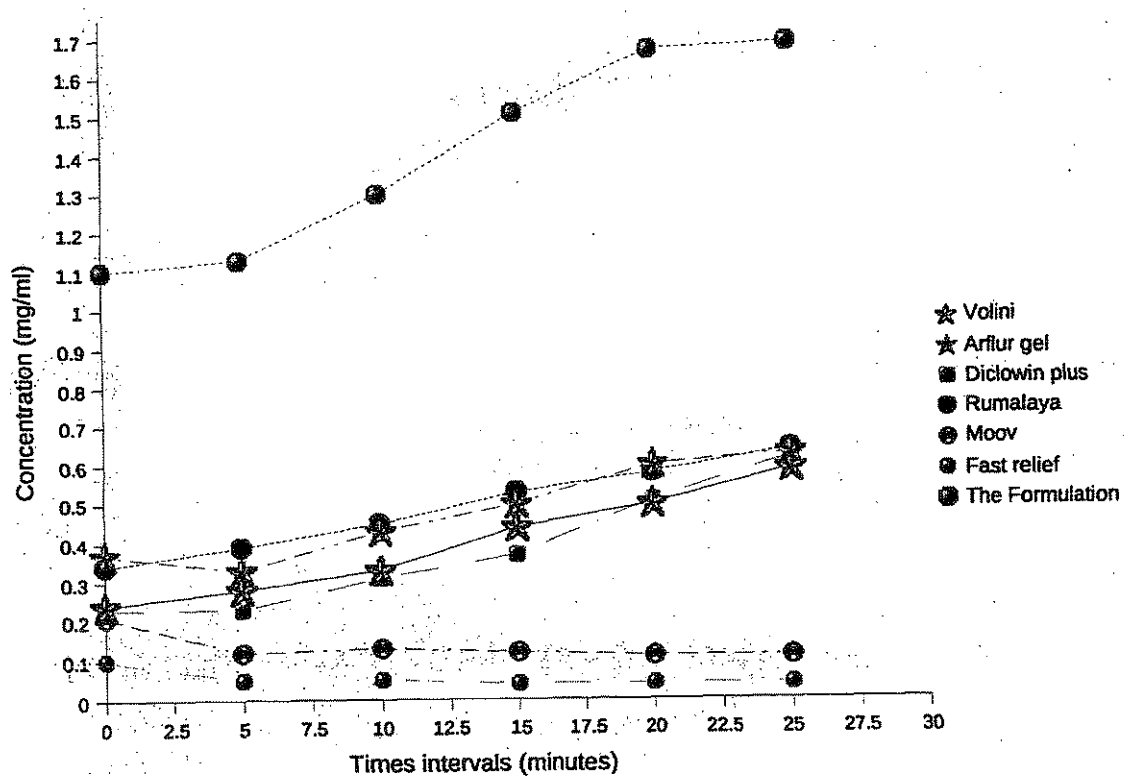


Table1

FIG.1

Period (months)	Description	Odour	Solubility (Insoluble in water but freely soluble in ethanol)	Specific gravity (Between 0.90 and 1.10)	pH (5.5-7.5)	Viscosity (at 100 rpm) (NMT 20)	Light Absorption (at 520 nm) (NMT 3.5)	Z-average size NMT 500 nm	PDI NMT 0.500	Zeta potential Between -0.10 to -0.80
Initial	Clear, transparent, pink to red viscous liquid	Strong aromatic	Complies	0.99	6.79	11.1	2.8	Complies	Complies	Complies
3	Clear, transparent, pink to red viscous liquid	Strong aromatic	Complies	0.99	6.78	11.1	2.81	Complies	Complies	Complies
6	Clear, transparent, pink to red viscous liquid	Strong aromatic	Complies	1	6.77	11.2	2.807	Complies	Complies	Complies
9	Clear, transparent, pink to red viscous liquid	Strong aromatic	Complies	1	6.76	11.2	2.809	Complies	Complies	Complies
12	Clear, transparent, pink to red viscous liquid	Strong aromatic	Complies	1	6.76	11.2	2.811	Complies	Complies	Complies
18	Clear, transparent, pink to red viscous liquid	Strong aromatic	Complies	1.01	6.76	11.2	2.812	Complies	Complies	Complies
24	Clear, transparent, pink to red viscous liquid	Strong aromatic	Complies	1.01	6.75	11.3	2.814	Complies	Complies	Complies

Table 2

FIG. 2

Sr. No	Name of Microorganism	Zone of Inhibition (In mm)		
		30 μ l	60 μ l	100 μ l
1	<i>S. aureus</i> (MTCC No:737)	10.94	12.60	13.90
2	<i>E. coli</i> (MTCC No: 1687)	12.49	14.55	16.90

Table 3

FIG. 3

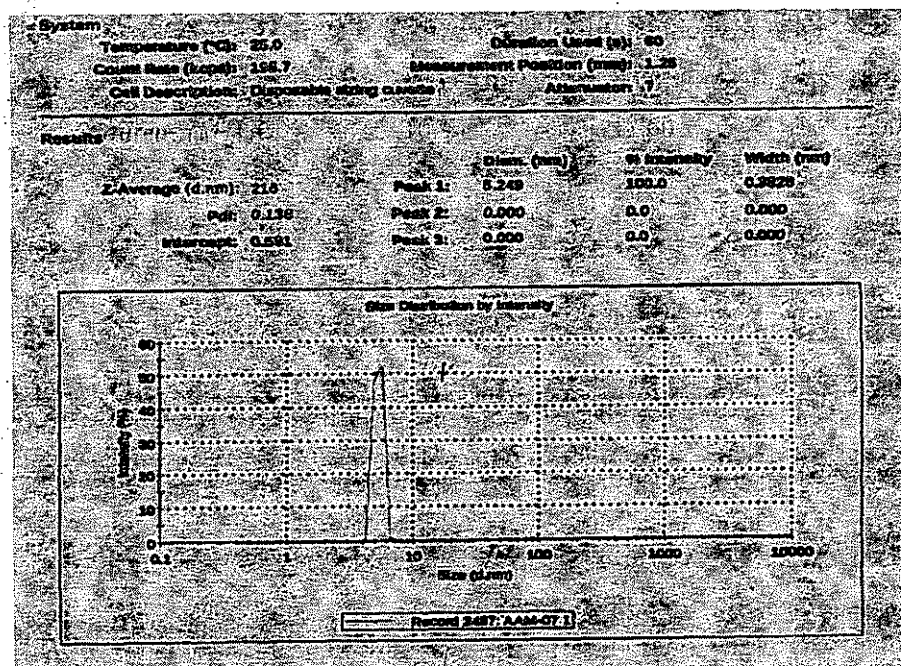


FIG. 4

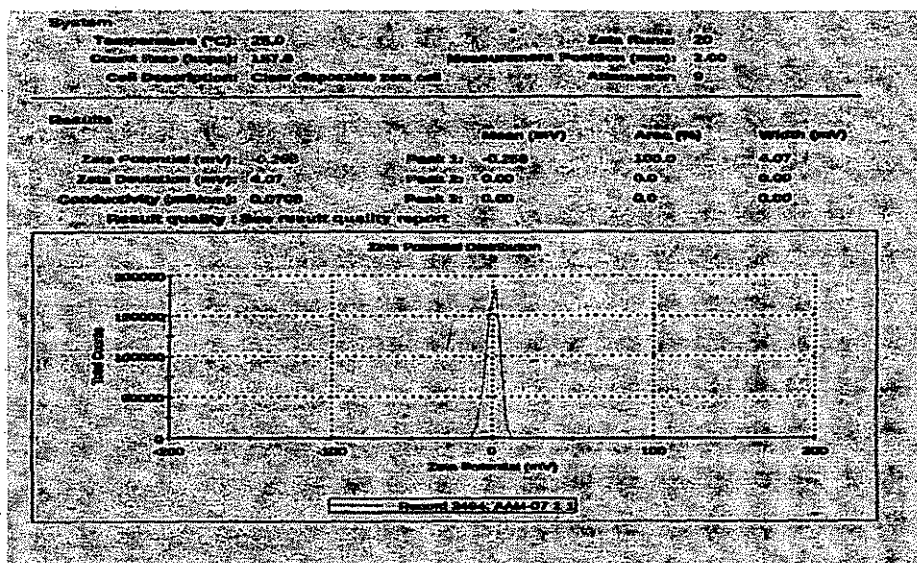


FIG.5

Sample Name	Code	Major Ingredients	NO (% Inhibition)	Superoxide anion radical (%Inhibition)	Metal chelating activity (%)	Free radical scavenging activity (%DPPH activity)	Hydroxyl radical scavenging assay (% Inhibition of DNA damage)
Formulation of Example 7	Formula tion of Example 7	Wintergreen oil, Camphor oil, Eucalyptus oil, Menthol, Apium graveolens, Boswellia serrata & Vitex negundo	64.84%	71.92%	48.59%	61.54%	75.66%
Brand 1 (Fast Relief)	A	Wintergreen oil, Mint, Camphor oil, Eucalyptus oil & Tarpeen oil	52.28%	59.29%	45.77%	60.12%	64.81%
Brand 2 (Rumalya)	B	Wintergreen oil, Mentha arvensis, Pinus roxburghii & Cinnamomum zeylanicum	54.34%	72.74%	49.19%	53.49%	47.62%
Brand 3 (Volini)	C	Methyl Salicylate, Menthol & Diclofenac	49.77%	69.95%	32.86%	55.28%	36.84%
Brand 4 (Moov)	D	Wintergreen oil, Pudine ka phool, Tarpin oil & Nilgiri oil	50.91%	71.73%	12.70%	39.18%	75.26%
Brand 5 (Arflur)	E	Methyl Salicylate, Menthol & Aceclofenac	46.35%	71.08%	19.35%	60.82%	48.54%
Brand 6 (Diclowin Plus)	F	Methyl Salicylate, Menthol & Diclofenac	45.21%	67.37%	33.87%	56.35%	44.31%

Table 4

FIG. 6