



**Specification of
Liquid Caramel Type IV (E150d) Double Strength**

Sr.No	Parameters	Standard limit
1	Color	Dark brown black
2	Odour	Caramelized
3	Chemical/Physical Properties	
	Colloidal charge	Negative
	Specific Gravity @ 20' C	1.24 to 1.27
	Colour Strength(OD@610nm of 0.1%Sol.)	0.240 to 0.260
	pH (at 20°C)	2.8 to 4.0
	Solubility	All parts in water
	Consistency	free flowing liquid
	Acid stability	Stable to strong acids
	Phosphoric acid test	Passes -no ppt after 24 hours
	%Ash	2 to 4 %
	4 MEI (4 methyl Imidazole)	Max. 1000 ppm
4	Heavy metal test	
	Arsenic	Max.3 ppm
	Lead	Max.5 ppm
	Copper	Max. 20 ppm
5	Microbiological properties	
	Aerobic plate count	200cfu/g, max.
	Yeast	10cfu/g, max.
	Mold	10cfu/g, max.
	E.Coli	<3 MPN/g
	Salmonella (cfu/25gm.)	Negative
6	Packing	As per requirement
7	Storage conditions	Cool and dry environment, preferably not to exceed 90°F. Product should not be allowed to freeze.
8	Shelf-life	12 months under storage conditions