



MTC Industries, Inc.

Nutra**ce**uticals, Food**ce**uticals, and Pharma**ce**uticals

SPECIFICATION

Product Name: D-alpha Tocopheryl Acid Succinate 1185 IU

TEST ITEMS	SPECIFICATIONS	TEST METHOD
Appearance	White to off-white granular or powder	Visual
Identification:		
1.Color reaction	1.Positive	1.USP
2.Specific Rotation[α]@25°C	2. \geq +24°	2.USP<781>
3.Retention time	3. The retention time of major peak in the test solution is the same as that of the standard preparation	3.USP
Acidity:	18.0 ml~ 19.3 ml	USP
Assay:	96.0%~ 102.0% \geq 1162 IU/g	USP
Bulk Density	0.48 g/cm ³ ~ 0.60g/cm ³	USP<616>
Melting Point	73.0°C-78.0°C	USP<741>
Particle Size	Residue on 20 meshes \leq 1%	USP <786>
Benzo(a)Pyrene	\leq 2ppb	GC-MS
Solvent: Hexane	\leq 290 ppm	USP <467>
Ethanol	\leq 5000ppm	USP <467>
Heavy Metal (As Pb)	\leq 10 mg/kg	UPS<231>II
Lead	\leq 0.5mg/kg	AAS
Cadmium	\leq 1 mg/kg	AAS
Arsenic	\leq 1 mg/kg	AFS
Mercury	\leq 0.1ppm	AFS
Total bacterial count	\leq 1000cfu/g	USP<61>
Yeast and Mold	\leq 100cfu/g	USP<61>



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E. Coli	≤ 10cfu/g	USP<61>
Salmonella	Negative/25g	USP<61>
Staphylococcus Aureus	Negative/10g	USP<61>

