

# ROCHEM INTERNATIONAL, INC.

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## PRODUCT SPECIFICATION

### VITAMIN E SUCCINATE NATURAL SOURCED (1210)

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(d-alpha tocopheryl acid succinate 1210/ Non-GM IP verified)

USP/EP/FCC

Version No: 700060-000

<b>Product Name:</b>	Vitamin E Succinate Natural Sourced (1210) IP verified
<b>Batch Number:</b>	XXXXXXXXXX
<b>Batch Size:</b>	XXXXXXXXXX
<b>Manufactured Date:</b>	XXXXXXXXXX
<b>Expiry/Expiration/Retest Date:</b>	XXXXXXXXXX
<b>CAS No.:</b>	4345-03-3
<b>ITEMS</b>	<b>SPECIFICATIONS</b>
<b>Appearance:</b>	White to off-white crystalline powder
<b>Identification:</b> A) Absorbance at 284nm and 254nm B) Infrared Absorption: C) TLC:	Complies Complies Complies
<b>Specific Rotation:</b>	$\geq +24^\circ$
<b>Melting Point:</b>	73 ~ 78 °C
<b>Loss on Drying:</b>	$\leq 2\%$
<b>Heavy Metals (as Pb):</b>	$\leq 10\text{ppm}$
<b>Lead:</b>	$\leq 2\text{ppm}$
<b>Cadmium:</b>	$\leq 1\text{ppm}$
<b>Arsenic:</b>	$\leq 1\text{ppm}$
<b>Mercury:</b>	$\leq 0.1\text{ppm}$
<b>Bulk Density:</b>	0.45 ~ 0.60 g/cm <sup>3</sup>
<b>Sulphated Ash:</b>	$\leq 0.1\%$
<b>Acidity (ml):</b>	18.0 ~ 19.3
<b>Acid Value (g):</b>	101 ~ 108
<b>Free Tocopherol:</b>	$\leq 1.0\%$
<b>Assay (alpha-tocopheryl succinate):</b>	98.0% ~ 102.0%
<b>Assay (alpha-tocopheryl succinate)IU/g:</b>	1185-1234IU/g
<b>Particle Size:</b>	100 thru #16 mesh $\geq 95\%$ thru #20 mesh $\leq 5\%$ thru #100 mesh
<b>Residual Solvents</b> Acetone: Benzo(a)Pyrene:* Ethanol: Hexane:	$\leq 5000\text{ppm}$ $\leq 1.8\text{ppb}$ $\leq 5000\text{ppm}$ $\leq 290\text{ppm}$
<b>PAH4 (ppb):</b>	10 max
<b>Microbiological Tests</b> Total Aerobic Microbial Count:	$\leq 1000/\text{g}$

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Yeasts and Molds:	≤ 100/g
E. Coli:	Negative
Coliform:	≤ 10 MPN/g
Salmonella:	Negative
<b>Exp Date:</b>	2 Years

**Note to Manufacturer:** Please add the following statement on all COA's:

\*Benzo(a)Pyrene is not used directly in the manufacturing process

Rev.09