

## CERTIFICATE OF ANALYSIS

Code: 4216A

Product: Advanced D with Calcium and Magnesium Tablets

Lot No.: 201465

REF: QCTR Revision-03

TEST	METHOD	SPECIFICATION	RESULT
Description (Core)	Visual	Oval shaped tablet with a bisect	Conforms
Description (FP)	Visual	Film-coated yellow	Conforms
Weight Variation	USP<2091>	Meets the current USP requirements	Conforms
		Theoretical core wt.: 1.590 grams ±5%	1.589 grams
		Theoretical coated wt.: 1.648 grams ±5%	1.674 grams
Disintegration	USP<2040>	Maximum 30 minutes	Conforms
Vitamin D-3	TM-551	41.67 mcg      Limit: 100.0%	139.6%
Vitamin K-2	TM-551	26.67 mcg      Limit: 100.0%	143.5%
L-Taurine	TM-401	33.34 mg      Limit: 100.0% - 125.0%	108.2%
Quercetin	USP	10 mg      Limit: 90.0% - 125.0%	106.8%
Magnesium (citrate)	TM-337	66.67 mg      Limit: 100.0% - 135.0%	126.0%
Calcium (citrate)	TM-337	133.34 mg      Limit: 100.0% - 135.0%	119.9%
Zinc (Opti Zinc)	TM-337	3.34 mg      Limit: 100.0% - 135.0%	102.9%
Dissolution (Calcium)	TM-337	NLT 75% after 60 minutes in 900 ml of 0.1N HCl @ 75 rpm, app.2 (pooled)	111%
Water activity*	USP<1112>	Limit: NMT:0.6 <sub>aw</sub>	0.4 <sub>aw</sub>
Microbial <sup>1</sup>			
Total Plate Count	USP<2021>	NMT: 3,000 cfu/g	Conforms
Yeast & Mold	USP<2021>	NMT: 300 cfu/g	Conforms
Specified Microorganism <sup>1</sup>			
Salmonella	USP<2022>	Absent	Conforms
Escherichia coli	USP<2022>	Absent	Conforms
Staphylococcus aureus	USP<2022>	Absent	Conforms
Biotin	**	667 mcg Limit: 100.0%	
Boron (Fruitex B)	See below footnote	0.67 mg Limit: 100.0%	

\*For information purpose only

\*\*Confirm by manufacturing process controls and procedures and verified by quality assurance review

<sup>1</sup> This product code is excluded from the SOP Q-034 skip lot microbial testing program and must be tested for each release.

The results reported for Vitamins affected by the new CFR update (21 CFR Part 101) may be reported in either Metric Units or International Units (IU), which may not reflect the units on the product label for this lot. The specification in Metric Units has been confirmed to meet the specification in IU.

Ref. Vol/Page: VMS-WV-0180/44,54; VMS-FP-0088/175; VMS-FP-0105/110; VMS-FP-0104/160-162; VMS-WA-0018/74;      Date: 09/15/2020  
 CPC 29698; VMS-DT-001/103

Released:  Rejected:  By: *Dard Naram*      Date: *09/15/2020*

Date Manufacture: 07/21/2020