Date: _____ Chemist _____ Reviewed. By _____

Sample WIP No._____ Sample SCN Lot No. _____

Sample Name: _____

Sample type: □ Finished Product □ Ingredient : Usage Rate _____

Expected Levels of Vit A _____ IU/serving

A acetate Factor = 0 .344 µg/IU. UPLC result µg/ml
A palmitate Factor = 0.550 µg/IU UPLC result µg/ml

Notebook No._____

Stock Std pg No._____Working Sds Pg. No._____

Std Inj Vol (IVstd) _____ **Sample Inj Vol (IVsa)** _____

Correction Factor for Inj Vol (IVstd/ IVsa) _____

Vitamin A UPLC Result (IU/serving * CF Inj Vol)

_____IU/serving

A acetate = UPLC (µg/ml) /0.344x100/SE

A Palmitate = UPLC (µg/ml) /0.55x100/SE

Expected Levels of Vit E _____ IU/serving

E **DL-α** Factor = 1000 µg/IU UPLC result µg/ml
E **D-α** Factor = 735 µg/IU UPLC result µg/ml
Notebook No._____
Stock Std pg No._____Working Sds Pg. No._____

Std Inj Vol (IVstd) _____ **Sample Inj Vol (IVsa)** _____

Correction Factor for Inj Vol (IVstd/ IVsa) _____

Vitamin E UPLC Result (IU/serving * CF Inj Vol)

_____IU/serving

E **DL-α** = UPLC (µg/ml) /1000x100/SE
E **D-α** = UPLC (µg/ml) /735x100/SE

Expected Levels of Vit D _____ IU/serving

UPLC result IU/ml = _____

Notebook No._____
Stock Std pg No._____ Working Sds Pg. No._____

Std Inj Vol (IVstd) _____ **Sample Inj Vol (IVsa)** _____

Correction Factor for Inj Vol (IVstd/ IVsa) _____

Vitamin D UPLC Result (IU/serving * CF Inj Vol)

_____IU/serving

UPLC (IU/ml) x100/SE

Expected Levels of Vit C _____ mg/serving

By Titration

Vitamin C Result _____mg/serving

Sample Prep for Assay for Fat Soluble

Piece Weight (grams):   _____

Number of Units Per Spec: _____

Spec Weight **SPW** (grams):   _____

Sample weight **SW** (grams):   _____

Servings Extracted SE:
Number of servings for extraction SW/SPW :_____

Sample Prep for Assay for Vitamin C

Piece Weight (grams):   _____

Number of Units Per Spec: _____

Spec Weight **SPW** (grams):   _____

Sample weight **SW** (grams):   _____

Servings Extracted SE:
Number of servings for extraction SW/SPW :_____

SANTA CRUZ NUTRITIONALS

UPLC Sample Preparation Worksheet

Form Number: QAF1046
Revision Number: 07
Effective Date: 06/12/2020
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Date: _____ Chemist _____ Reviewed. By _____

Sample WIP No._____ Sample SCN Lot No. _____

Sample Name: _____

Sample type: □ Finished Product □ Ingredient : Usage Rate _____

Expected Levels of _____

Notebook No._____

Stock Std pg No._____Working Sds Pg. No._____

Std Inj Vol (IVstd) _____ **Sample Inj Vol (IVsa)** _____

Correction Factor for Inj Vol (IVstd/ IVsa) _____

UPLC Result (IU/serving * CF Inj Vol)

_____

Expected Levels of _____

Notebook No._____

Stock Std pg No._____Working Sds Pg. No._____

Std Inj Vol (IVstd) _____ **Sample Inj Vol (IVsa)** _____

Correction Factor for Inj Vol (IVstd/ IVsa) _____

UPLC Result (IU/serving * CF Inj Vol)

_____

Expected Levels of _____

Notebook No._____

Stock Std pg No._____Working Sds Pg. No._____

Std Inj Vol (IVstd) _____ **Sample Inj Vol (IVsa)** _____

Correction Factor for Inj Vol (IVstd/ IVsa) _____

UPLC Result (IU/serving * CF Inj Vol)

_____

Expected Levels of _____

Notebook No._____

Stock Std pg No._____Working Sds Pg. No._____

Std Inj Vol (IVstd) _____ **Sample Inj Vol (IVsa)** _____

Correction Factor for Inj Vol (IVstd/ IVsa) _____

UPLC Result (IU/serving * CF Inj Vol)

_____

Expected Levels of _____

Notebook No._____

Stock Std pg No._____Working Sds Pg. No._____

Std Inj Vol (IVstd) _____ **Sample Inj Vol (IVsa)** _____

Correction Factor for Inj Vol (IVstd/ IVsa) _____

UPLC Result (IU/serving * CF Inj Vol)

_____

Sample Prep for Assay

Piece Weight (grams): _____ _____ _____

Number of Units Per Spec: _____ _____ _____

Spec Weight **SPW** (grams): _____ _____ _____

Sample weight **SW** (grams): _____ _____ _____

Servings Extracted SE:
Number of servings for extraction SW/SPW _____ _____ _____