



SANTA CRUZ  
NUTRITIONALS

**UPLC  
Sample Preparation  
Worksheet**

Form Number: QAF1046  
Revision Number: 07  
Effective Date: 06/12/2020  
Page 1 of 2

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 : \_\_\_\_\_

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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 \_\_\_\_\_