

Follow the Method



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Follow the Method

- Why do you want to change or modify the method ??
 - Is it due to the type of material ?
 - Are you trying for a lower Detection Limit ?
 - Other reasons ?

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** Considerations **

- How was the method developed
 - Validation criteria used
 - Ruggedness factors
 - Range of sample types & values

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Changing sample weight

- What are the effects: ~
 - does it require more acid for the digestion which results in the following ?



- Change in instrument conditions
- Adverse effects on colorimetric conditions

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Effect of change on the Analytical Techniques

Salting of torch

Viscosity of the sample solution

Matrix changes relative to the calibration standards

Plasma energy

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Effect of change on the Analytical Technique

Colorimetric procedures

adverse chemical reaction(s)

pH change ?

proper color development

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Re-Validation prior to implementation of the change

Use of NIST or other source of standard material

~must be of similar matrix !!

Multiple replicates – different days

Establish new –std. dev or uncertainty value(s)

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