

- Acetates
- Acids-Chlorinated
- Acids-Organic
- Alcohols
- Benzidines
- Carbamates
- Esters
- Explosives
- Fame's
- Glycols
- Herbicides
- Hydrocarbons
- Ketones
- Nitroaromatics
- Organo Metallic
- OC Pesticides
- OP Pesticides
- PAH's
- PCB's
- Petrochemicals
- Phenols
- Semi-volatiles
- Volatiles



## A QUOTE COSTS NOTHING - SO WHY NOT NO OBLIGATION QUOTATION TODAY?

Fill in the form below and fax to 01494 564990 or visit www.tham  
 Take these eight steps to create the right solution:

1. Mixture Description: .....
2. Solvent: .....
3. Number of Components: .....
4. Volume per ampul (select): 1mL, 2mL, 5mL, 10mL or other \_\_\_\_mL
5. Quantity of ampuls: .....
6. Testing and documentation that best meets your requirements:
  - Gravimetric Documentation: Lot Sheet with balance printout attached.
  - Qualitative Documentation: Certificate of Composition, Chromatogram, and Gravimetric Documentation.
  - Quantitative Documentation: Certificate of Analysis and Data Pack.

## 12 steps critical in reference material production that separate Restek from the rest.

### 1. Review method requirements



Each method is carefully reviewed to determine the exact compound requirements and the stock concentrations necessary to produce working level solutions. Establishing purity of raw materials and the necessary documentation required to meet audit compliance is an important aspect of this review.

### 2. Verify compatibility and stability



Compound requirements are reviewed for chemical compatibility and anticipated long-term stability. We specify raw material purity, mixture composition, and test experimental batches.

### 3. Test starting materials



Each compound and solvent be thoroughly tested to determine purity and identity. Multiple techniques are used, including differential scanning calorimetry (DSC) to detect water, residual catalysts, and inorganic contamination not seen by chromatographic techniques. We perform GC/FID and GC/MS analysis on all compounds and solvents to verify compound purity and identity. Other analytical techniques used may include Karl Fisher, GC/FPD, GC/ECD, NMR, IR, TLC, HPLC, and HPLC/MS.

### 4. Certify balance and weights



All analytical balances have calibration verified at seven mass levels each day. The weights are certified to be NIST-traceable by an independent organization. The analytical balances also are serviced by an outside organization, and calibration is verified again with a second set of NIST-traceable weights.

### 5. Deactivate Glassware and Ampuls



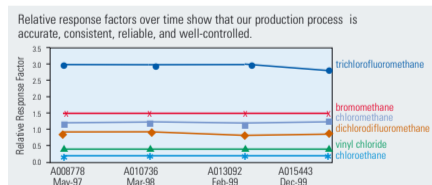
Mixtures prepared on a weight/volume basis are produced in an ASTM Class A volumetric flask that has been deactivated to prevent adsorption. All ampuls are washed with solvent, deactivated, washed with solvent again; then dried under vacuum to remove residual solvent vapors. You will never find dirt, dust, or compound adsorption when you use a Restek ampul.

### 6. Prepare Two Independent Lots



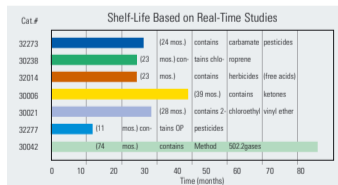
Two independent preparers, using two approved lots of raw materials and two independently calibrated analytical balances, carefully prepare two lots of the mixtures. After the two lots have been thoroughly dissolved and homogenized, they are dispensed into ampuls and flame sealed. Each lot is handled individually and the filling/sealing sequence is carefully noted.

### 7. Assay to assure quality



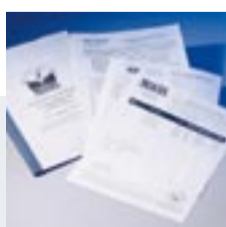
Three sealed ampuls (first, middle, and last) from each lot are analyzed and compared to previous lots. The relative response factors for one of our most difficult mixtures demonstrate that our production process is accurate, consistent, reliable, and well controlled.

### 8. Assign real-time expiration dates



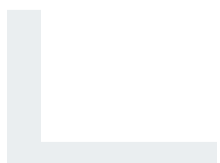
Our stability program retains samples from the first batch for a three year minimum. These are compared to new batches every six months for the first two years, then yearly for as long as seven years. Our products are labeled with expiration dates based on this data, so you don't have to dispose of the product any earlier than necessary.

### 10. Include Restek documentation



If you must defend your analytical data in court, make sure you have our data pack in hand. It contains every record, from raw material purity and identity verification through mixture preparation and final testing. We offer data packs on every quantitative environmental mixture we produce.

### 11. Comply with ISO 9001 registration



The Restek Analytical Reference Materials program is a part of the scope of our ISO 9001 registration. You get complete confidence in our procedures, and you get accurate, reproducible reference materials!

### 9. Use customer friendly product packaging



Restek ampuls are packaged in a clear plastic shell so you can see the contents and special precaution warnings and storage temperatures. We also include an ampul breaker, a deactivated screw-top vial to store any unused solution, an extra product label to attach to the vial or the lab notebook, and a hazard card summarizing special precautions to follow when working with the mixture. (Includes extra vial and label.)

### 12. Offer custom reference materials programme



We can prepare custom mixtures to your specifications under the program outlined here. You must take the first step and contact us with your special requirements. Join the many thousands worldwide who use Restek custom mixtures in their laboratories.

ALL mixtures are produced in accordance with our ISO 9001:2000 registration. Analytical balances are calibrated daily at seven mass levels using NIST traceable weights. ALL raw materials used are a minimum of 97% pure unless otherwise specified.

## YOUR Contact information

Name .....

Department .....

Organisation .....

Address .....

Postcode .....

Tel No: .....

Email: .....

## CHROMATOGRAPHY STOCK CABINET\*

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- Broken your last syringe?

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