CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2010

DateRun: 06/07/2010

Experimenters: Heidi Wilcox

ClientType: Biomedical Device Manufacturer

ProjectNumber: Project #1

Substrates: Glass/Quartz

PartType: Coupon

Contaminants: Waxes

Cleaning Methods: Immersion/Soak

Analytical Methods: Visual

Purpose: To evaluate the methyl ester and the bio based products from the previous trial in a longer immersion soak cleaning and a wipe after to see if this helps with the wax removal.

Experimental Procedure: Two products were evaluated for their effectiveness in removing wax from a glass substrate. 6 pre waxed glass parts from the client were used. The cleaning took place using 150 ml of each solvent in 250 ml glass beakers. The coupons were let to soak for 10 minutes with no stir bar agitation used. After the soak the parts were removed and wiped with a Wipe All lab towel and visual observations were made.

Results: With the longer soak and the wipe, the BDE product showed very little wax removal. The Bio Solv however removed almost all the Wax that was immersed in the solvent with the wipe after. It shows promise to work even better with a longer Room temp soak or Shorter heated soak.

Cleaner	Observations
DBE 6	Showed no signs of removing wax
Bio Solv	Removed almost all the wax that was immersed in the solvent with a wipe after

Summary:

Substrates:	Glass/Quartz				
Contaminants:	Waxes				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Invista S.a.r.l	Flexisolv DBE 6 ester	100	0.00	☐	

Conclusion: The Bio Solv shows promise in removing the wax from glass in a longer room temperature soak with a wipe. Next steps will be to test the Bio Solv heated and with a wipe to see if that will decrease cleaning time and increase removal efficiency. May try other biobased products at the same time that will be chosen from previous tests and the cleaner solutions database.