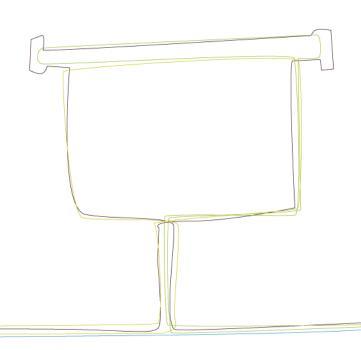


IDEA Annual Review 2015

Analytical efforts in support of pre-hapten assessment

IDEA Hydroperoxides TF





- To apply QRA to haptens formed from pre-haptens over time, a solid analytical understanding is important.
- The analytical TF has focused its initial efforts on the pre-haptens Limonene (Lim) and Linalool (Lin), which form the corresponding hydroperoxides.
- Qualified reference materials were made available to meet analytical needs.
- Efforts were made to develop and test a range of methods.



The Standard development and qualification involved:

-	
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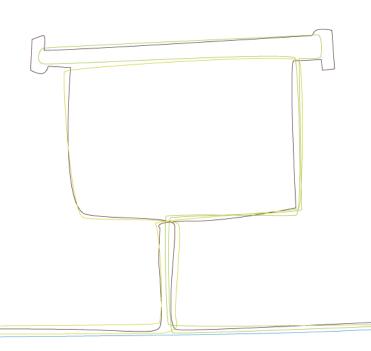
- The work has provided the basis for:
 - Several potential methods for the quality control for hydroperoxides in raw materials:
 - Silylation + GC-MS or GC-FID
 - Chemical reduction with TPP + GC
 - LC-MS/MS
 - Early leads for assessing hydroperoxides in consumer products.
- The methods are complementary.



- For routine use of these methods, we still need to:
 - Assess the impact of analytical interferences on the quantification of hydroperoxides
 - Assess the variability of selected methods
 - Develop sample preparation methods to be compatible with these hydroperoxides and applicable to cosmetic products
 - Confirm that methods are applicable to the various consumer product types
 - Organize the first ring test in consumer products



Thank you for your attention



December 17, 2014