

OCTOBER 19, 2013

Hope you had opportunities to take a break during the summer and be refreshed.

During this past quarter, we have developed new chemical methods to synthesize para-hydroxy metabolites of APIs. These are challenging synthesis since the para-O aromatics often readily degrade to form Quinone type moieties under reactive conditions. Besides that, we have continued development of new methods/technologies for synthesis of acyl-glucuronides and sulfates. For example, we recently synthesized and isolated Triiodothyronine-acyl-glucuronide and Triiodothyronine-sulfate at high purity.

Additional reference standards that we have in-stock are listed on our website catalog. If you are looking for a particular compound we have not listed, please contact us - we can often quickly procure or synthesize those that we do not have in-stock using advanced intermediates that we might have.

Our standard practice is to place a one year recertification date in a comprehensive [Certificate of Analysis \(CoA\)](#) that includes all supporting analytical data (HPLC, LCMS, NMR) freshly obtained from the batch/container that is shipped. This does entail a cost overhead for each shipment, but provides guarantee and assurance that the high purity values of the compound listed in the CoA are accurate and enables compliance with regulatory requirements.

Please do let me know if I can answer any questions or if we can be of assistance.

Best Regards,
Khalid

Khalid Thakur



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