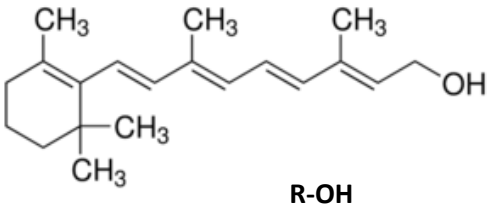
AM-258

Quantification of retinoid metabolites in zebrafish by LC-MS/MS

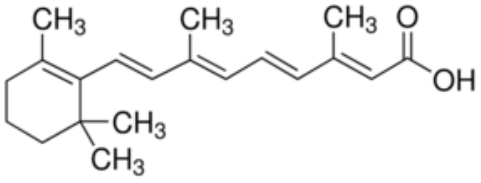
Vitamin A plays an important role in a vast number of physiological processes including reproduction, bone growth, immune funtion, and vision. Today a number of closely related compounds that are naturally present in biological samples is also known. All plays essential roles for almost every animal tissue and organs.

The term retinoids covers natural as well as syntetic structural analogs of retinol, including those with and without retinol bioactivity. Only retinoids in the form of retinol (R-OH) should be term vitamin A.

Vitas AM-258 quantifies the reinoids; at-RA, atROH, at-RCOH, and 13-cisRA in zebrafish using LC-MS/MS analysis.



R-OH



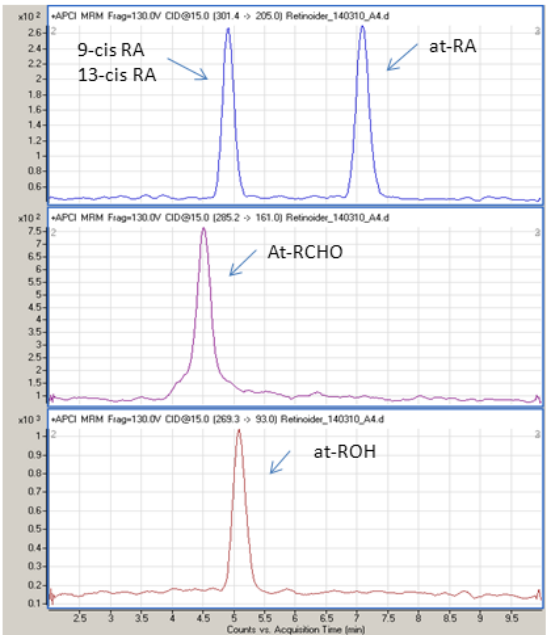
at-RA

Method details:

- Technique: LC-MS/MS
- Sample Matrix: Tissue
- Species: Fish
- Sample amount: 5 g

- Range: 3-40 ng/ml
- Detection Limit: 0.6-0.9 ng/ml
- Quantification limit: 2-3 ng/ml
- Shipping temp: Dry ice

Chromatogram of retinoids in zebrafish tissue



Vitas is a Norwegian GMP certified chemical analysis contract lab, with 20 years experience in providing a high quality, custom chromatographic analytical service based on cutting-edge knowledge and technology.

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