Quantification of myricetin and its metabolites in Hct116 human colon carcinoma cells.

1x10^6 Hct116 cells were plated in 60 mm cell culture dishes and allowed to attach for 48 h. Subsequently medium was changed and cells were allowed to grow for further 24 h. Then 50 µM myricetin, laringetin, syrengetin, MTM were added. After 15 min/1 h of incubation time, cell culture medium was removed and the cells were washed three times with PBS containing 1% bovine serum albumin. The cell pellet was dissolved in 300 µl methanol and lysed by sonification. Afterwards, samples were centrifuged and 20 µl of the supernatant was injected into a HPLC system coupled to a UV detector. The flavonoid content was normalized to the protein amount of the cell pellet (Lowry).
b) Detection of myricetin/myricetin derivatives in C. elegans

Detection of myricetin/myricetin derivatives in C. elegans (representative chromatograms)
Sample Name: XAN_156_1

Acq. Operator: Administrator Ehrlich  
Seq. Line: 42  
Acq. Instrument: Instrument 1  
Location: Vial 2  
Injection Date: 7/8/2015 3:35:35 PM  
Inj.: 1  
Inj. Volume: 5.0 µl  
Acq. Method: Z:\2015\201507\XAN\150303 2015-07-08 14-43-42\XAN156_15070844.D  
Last changed: 7/8/2015 2:31:19 PM by Administrator Ehrlich  
Analysis Method: C:\CHEM32\1\METHODS\NWC\XEA_2015\XAN.M  
Last changed: 7/14/2015 1:41:04 PM by Administrator Ehrlich  
(modified after loading)  
Method Info: Analytik: REVISION "Food & Function"- Artikel Myricetinderivate  
für XAN & AG Wütjen Biozentrum  

Additional Info: Peak(s) manually integrated

---

Area Percent Report

Sorted By: Signal  
Multiplier: 1.0000  
Dilution: 1.0000  
Use Multiplier & Dilution Factor with ISTDs  

No peaks found
Acq. Operator : Administrator Ehrlich
Acq. Instrument : Instrument 1
Injection Date : 6/22/2015 4:41:37 PM
Inj Volume : 5.0 µl
Acq. Method : Z:\2015\201506\XAN\150303 2015-06-22 14-06-51\XAN156_15062235.D
Inj : 1
Analysis Method : C:\CHEM32\1\METHODS\WfC\XEA_2015\XAN156.M
Last changed : 6/22/2015 10:54:59 AM by Administrator Ehrlich
Last changed : 7/14/2015 1:41:04 PM by Administrator Ehrlich
(modified after loading)
Method Info : Analytik: REVISION "Food & Function"- Artikel Myricetinderivate
für XAN & AG Wätjen Biozentrum

Additional Info : Peak(s) manually integrated

Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Acq. Operator: Administrator Ehrlich
Acq. Instrument: Instrument 1
Injection Date: 6/22/2015 5:32:59 PM
Injection Volume: 5.0 µl
Acq. Method: Z:\2015\201506\XAN\150303 2015-06-22 14-06-51\XAN156_15052236.D
Last changed: 6/22/2015 10:54:59 AM by Administrator Ehrlich
Analysis Method: C:\CHEM32\METHODS\WUC\XEA_2015\XAN.M
Last changed: 7/14/2015 1:41:04 PM by Administrator Ehrlich
(modified after loading)
Method Info: Analytik: REVISION "Food & Function"- Artikel Myricetinderivate für XAN & AG Wätjen Biozentrum
Additional Info: Peak(s) manually integrated

Area Percent Report

Sorted By: Signal
Multiplier: 1.0000
Dilution: 1.0000
Use Multiplier & Dilution Factor with ISTDs
No peaks found
Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

No peaks found
Acq. Operator : Administrator Ehrlich  
Acq. Instrument : Instrument 1  
Injection Date : 7/8/2015 6:09:17 PM  
Inj Volume : 5.0 µl  
Acq. Method : Z:\2015\201507\XAN\150303 2015-07-08 14-43-42\XAN.M  
Last changed : 7/8/2015 2:31:19 PM by Administrator Ehrlich  
Analysis Method : C:\CHEMS2\1\METHODES\MWC\XEA_2015\XAN.M  
Last changed : 7/14/2015 1:41:04 PM by Administrator Ehrlich  
(modified after loading)  
Method Info : Analytik: REVISION "Food & Function"- Artikel Myricetin derivat  

für XAN & AG Wütjen Biozentrum  

Additional Info : Peak(s) manually integrated

Area Percent Report

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

No peaks found
Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

No peaks found
Acq. Operator : Administrator Ehrlich
Acq. Instrument : Instrument 1
Injection Date : 6/22/2015 7:15:45 AM
Inj Volume : 5.0 µl
Inj : 1
Seq. Line : 36
Location : Vial 7

Acq. Method : Z:\2015\201506\XAN\150303 2015-06-22 14-06-51\XAN156_15062238.D
Last changed : 6/22/2015 10:54:59 AM by Administrator Ehrlich
Analysis Method : C:\CHEM32\METHODS\NWC\XEA_2015\XAN.M
Last changed : 7/14/2015 1:41:04 PM by Administrator Ehrlich
(modified after loading)

Method Info : Analytik: REVISION "Food & Function"- Artikel Myricetinderivate
für XAN & AG Wütjen Biozentrum

Additional Info : Peak(s) manually integrated

Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

No peaks found