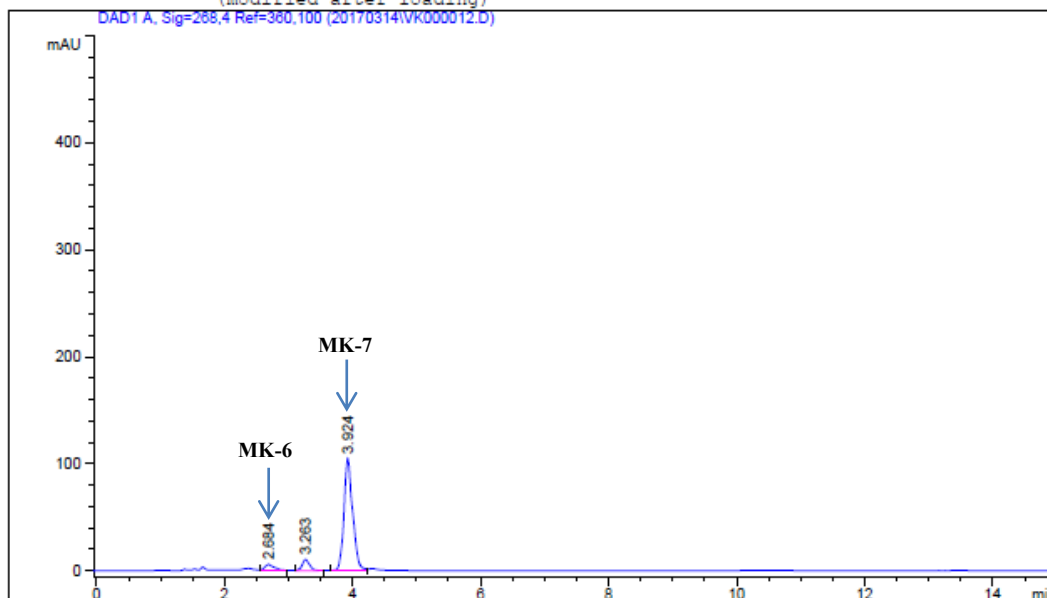


3.2. Results of the MK-7 using Packing L1 (C18) Column

```
=====
Injection Date   : 2017-03-14 5:07:37 ??          Seq. Line :    2
Sample Name     : sample 60'                     Location  : Vial 18
Acq. Operator   : VK                             Inj       :    1
Acq. Instrument : Instrument 1                     Inj Volume: 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\VK2_USP.M
Last changed    : 2017-03-14 4:49:47 ?? by VK
Analysis Method : C:\HPCHEM\1\METHODS\VK2_USP.M
Last changed    : 2017-03-14 9:30:08 ?? by VK
                  (modified after loading)
=====
```



```
=====
                        Area Percent Report
=====

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

Signal 1: DAD1 A, Sig=268,4 Ref=360,100

Peak RetTime Type Width Area Height Area
# [min] [min] [min] [mAU*s] [mAU] %
-----|-----|-----|-----|-----|-----|
1 2.684 VV 0.1546 66.87621 6.06501 5.8098
2 3.263 VB 0.1236 87.34897 10.65760 7.5883
3 3.924 EV 0.1341 996.87561 105.64384 86.6019

Totals :                      1151.10078 122.36645

Results obtained with enhanced integrator!
=====
*** End of Report ***
=====
```

	RT	Result
MK-7	3.924	Detected
MK-6*	2.694	Detected

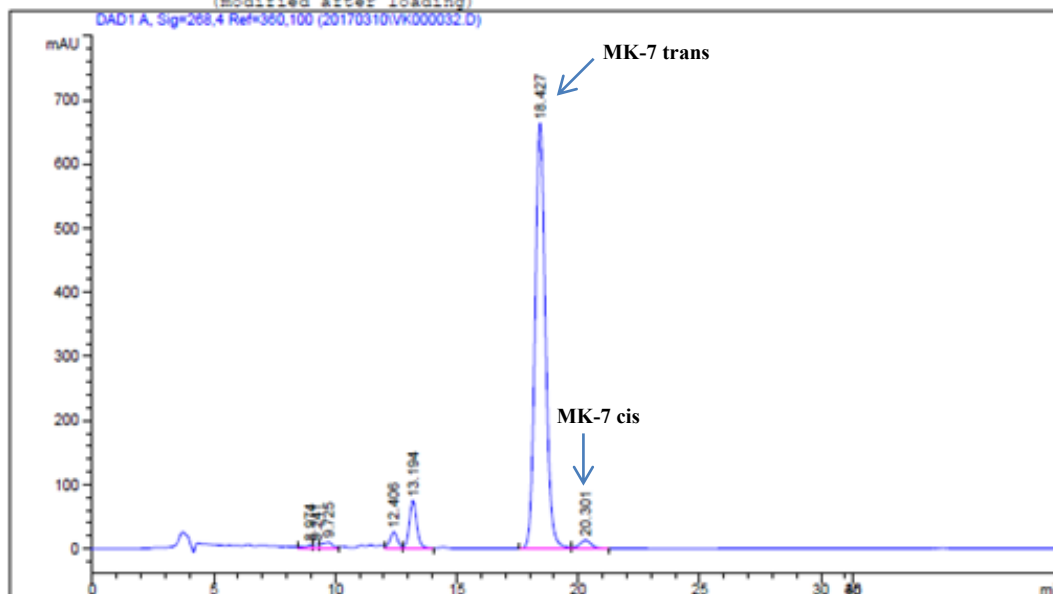
*MK-6 is a marker of natural fermentation product.

4. Current status

We are still in process to improve the manufacturing technology of increasing purity and reducing the content of cis- form. Our recent innovative purification technology has led to a prototype that is more than 95% trans-form with less than 2% cis-form and no other forms of menaquinone except for MK-6.

4.1. Results of the new prototype MK-7 using Packing L62 (C30) Column

```
=====
Injection Date   : 2017-03-11 9:12:03 ??          Seq. Line : 21
Sample Name     : powder ICK''                  Location  : Vial 69
Acq. Operator   : VK                            Inj       : 1
Acq. Instrument : Instrument 1                   Inj Volume: 20 µl
Acq. Method     : C:\HPCHEM\1\METHODS\VK2_C30.M
Last changed    : 2017-03-10 8:50:10 ?? by VK
Analysis Method : C:\HPCHEM\1\METHODS\VK2_USP.M
Last changed    : 2017-03-16 2:44:59 ?? by VK
                  (modified after loading)
=====
```



```
=====
Area Percent Report
=====

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

Signal 1: DAD1 A, Sig=268,4 Ref=360,100

Peak RetTime Type Width Area Height Area
# [min] [min] [min] [mAU*s] [mAU] %
-----|-----|-----|-----|-----|-----
1 8.974 HH 0.3347 137.45428 5.63240 0.5986
2 9.241 HH 0.2278 106.66908 6.69627 0.4646
3 9.725 HH 0.4428 341.37003 10.13811 1.4865
4 12.406 HH 0.3363 577.40546 26.07800 2.5143
5 13.194 HH 0.3326 1642.75098 75.27167 7.1535
6 18.427 HH 0.4581 1.96977e4 663.99274 85.7748
7 20.301 HH 0.5209 461.09137 13.15516 2.0079

Totals : 2.29644e4 800.96434

Results obtained with enhanced integrator!
=====
*** End of Report ***
```

	RT	Result
MK-7 trans	18.427	Detected
MK-7 cis	20.301	Detected