

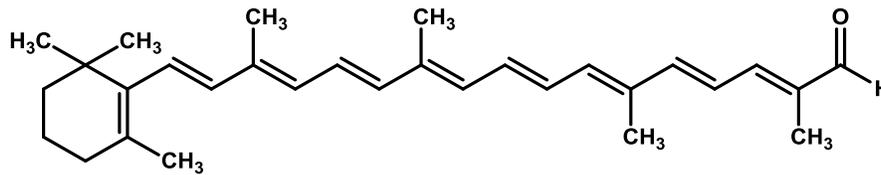


U.S. Pharmacopeia  
The Standard of Quality<sup>SM</sup>

# USP Certificate

## Apocarotenal

LOT F0K231



### Molecular Formula

**C<sub>30</sub>H<sub>40</sub>O**

### Molecular Weight

**416.65**

### CAS Number

**1107-26-2**

### LABEL TEXT

For use with specified USP compendial tests. Not for use as a drug. MSDS available on [www.usp.org](http://www.usp.org).



**APOCAROTENAL 3 x 50 mg**  
(beta-Apo-8'-Carotenal)

Do not dry. Protect from light.  
Dispose of unused material after  
use. Store in a freezer.

USP, 12601 Twinbrook Pkwy  
Rockville, MD, +1-301-881-0666  
CAT. NO. 1040854

LOT: FOK231



*Quality Assurance*



# TYPICAL CHROMATOGRAM

## USP Apocarotenal RS

Lot F0K231 (Cat. 1040854)

**Monograph:** Astaxanthin Esters from *Haematococcus pluvialis*

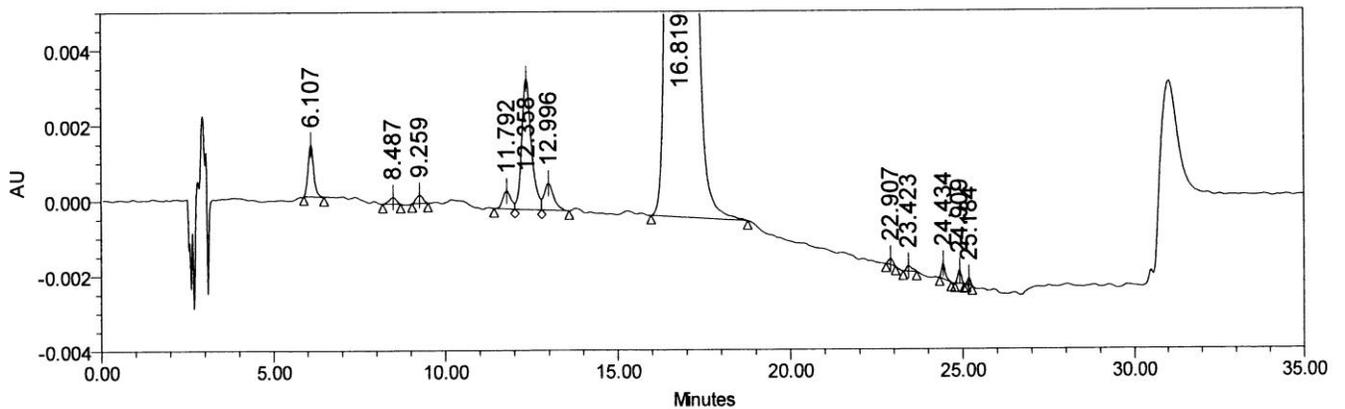
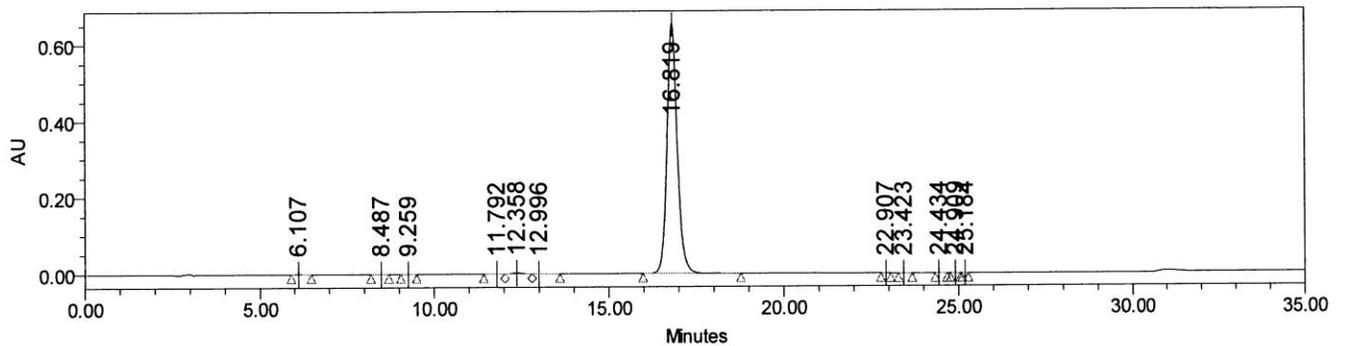
**Test:** ASSAY – Astaxanthin (Total)

**Publication:** *Food Chemicals Codex 7, Third Supplement*

**Monograph:** Astaxanthin Esters from *Haematococcus pluvialis*

**Test:** ASSAY – Content of Total Astaxanthin

**Publication:** *Pharmacopeial Forum, Vol. 38(4) [July-Aug. 2012]*



This chromatogram is supplied for information only, unless otherwise specified in an applicable monograph or general chapter.

### Calculation Value

Unless otherwise stated on the Reference Standard label, a value of 100.0% should be used in the compendial applications for which the use of this Reference Standard is intended. Please refer to the specific Reference Standard label for further information.

### Expiration

Current lots are identified in the current USP Catalog. In some cases, the previous lot may still be considered valid for use. If so, it is identified in the column marked "Previous Lot/Valid Use Date."

It is the responsibility of each user to determine that this lot is current or valid when used. For the most up-to-date information, please refer to the USP Store at [www.usp.org](http://www.usp.org).

### Instructions for Use

Follow the instructions on the label of the USP Reference Standard and in the appropriate USP documentary standard(s).

### Non-Monograph Use

The suitability of this Reference Standard for use in non-compendial applications is solely the responsibility of the user.

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USP Reference Standards are not intended for use as drugs,

Typical Chromatogram (Form 4 Version 02)	Effective date April 22, 2012	Department: SSD
G:\11 RSE\05 Current Process Forms\02 Stage 2\03 Typical Chromatogram\30 Typical Chromatogram Template		

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