

# Certificate of Analysis

FOR LABORATORY USE ONLY

<b>PRODUCT</b>	Holy Basil ( <i>Ocimum tenuiflorum</i> ) Aerial
<b>PART NUMBER</b>	00031083
<b>REFERENCE TYPE</b>	Biomass Reference Material (VBRM) *
<b>LOT NUMBER</b>	00031083-298
<b>COMMON NAME</b>	Holy Basil
<b>LATIN NAME</b>	<i>Ocimum tenuiflorum</i> L. syn. <i>Ocimum sanctum</i> L. [Lamiaceae]
<b>PLANT PART</b>	Aerial
<b>CDXA NUMBER</b>	CDXA-08-2159
<b>REPORT NUMBER</b>	CDXA-VBRMR-082-01
<b>DATE OF SAMPLE</b>	16 September 2008
<b>DATE OF RE-EVALUATION</b>	25 March 2014
<b>DATE OF REPORT</b>	09 April 2014



\*Note – Vouchered (V) BRM is a voucher specimen  
A full-size color voucher copy may be purchased by contacting the ChromaDex sales office

## ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Whole/Cut: Dried dark green leaves with skinny brown stick and dried seed pods (2) Milled: Green/grey powder
Anatomy/Morphology	Microscopy	(1) Multicellular bent trichome showing 6 cells (2) Broken Lamiaceous-type glandular trichome showing 4 rounded cells
HP-TLC	CDXA-TLCM-036-00	Conforms

## STORAGE CONDITIONS

<b>STORAGE</b>	20-30 °C; Dry storage area; Insect free; Volatile free
<b>EXPIRATION DATE</b>	03/2029 under the above conditions



### MACROSCOPY

(1)

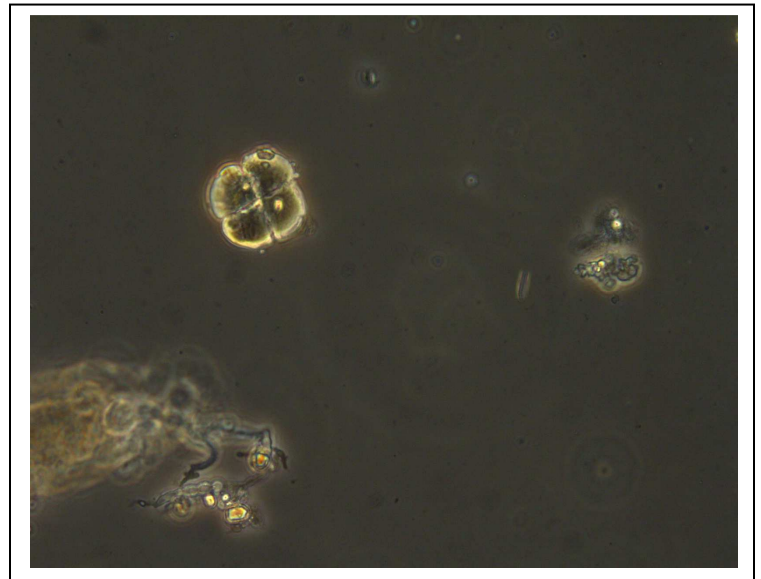


### MICROSCOPY

(1)



(2)

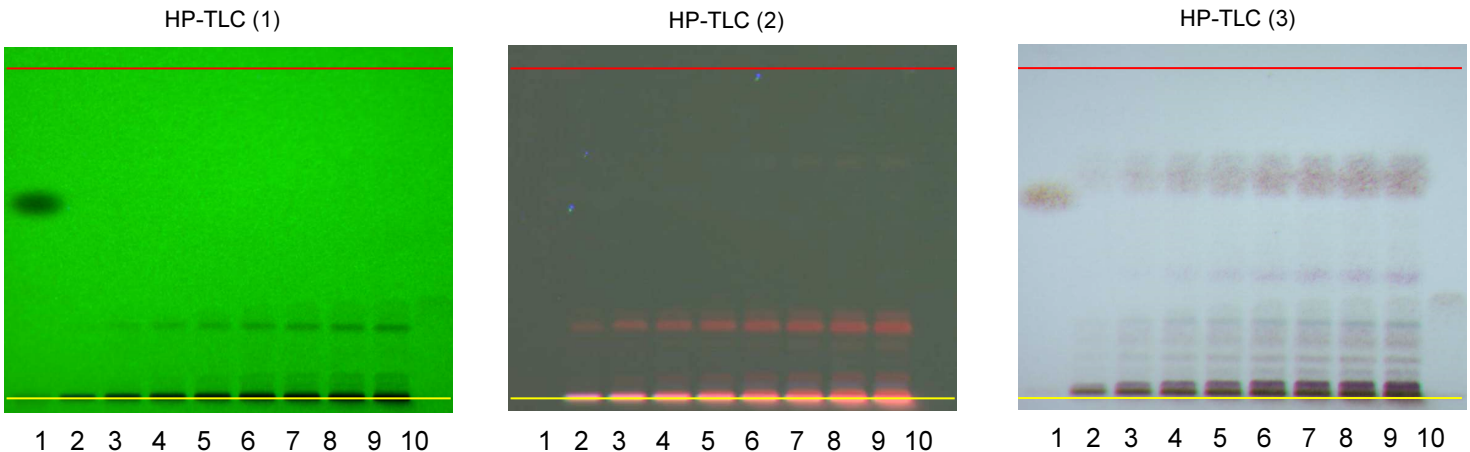




### HP-TLC CONDITIONS

<b>STATIONARY PHASE</b>	Silica gel 60, F <sub>254</sub> , 10 x 10 cm HP-TLC plates
<b>SAMPLE PREPARATION</b>	0.5 g + 5 ml methanol, sonicated in hot water bath for ~10 minutes.
<b>MOBILE PHASE</b>	Toluene/ ethyl acetate [9.3/0.7]
<b>CHAMBER TEMPERATURE</b>	Ambient
<b>DETECTION</b>	(1) UV 254 nm (2) UV 365 nm (3) Vanillin/H <sub>2</sub> SO <sub>4</sub> spray reagent → visible light

### HP-TLC PLATES



YELLOW LINE = SAMPLE ORIGIN  
RED LINE = SOLVENT FRONT @ 70MM

### HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	Anethole	6	<i>Ocimum tenuiflorum</i> VBRM
2	<i>Ocimum tenuiflorum</i> VBRM	7	<i>Ocimum tenuiflorum</i> VBRM
3	<i>Ocimum tenuiflorum</i> VBRM	8	<i>Ocimum tenuiflorum</i> VBRM
4	<i>Ocimum tenuiflorum</i> VBRM	9	<i>Ocimum tenuiflorum</i> VBRM
5	<i>Ocimum tenuiflorum</i> VBRM	10	Eugenol

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12 November 2008	New report
01	09 April 2014	Passed re-evaluation; updated expiration date; updated HP-TLC plate pictures; general template update; updated Latin name