

11. ANNEXURE

- Plant Authentication



THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA
FACULTY OF SCIENCE
DEPARTMENT OF BOTANY
VADODARA
e-mail: drnagar@gmail.com

Dr. P. S. Nagar
Asst. Prof.

Ref: Bot/271216/aut/4


Date: 27/12/2016

CERTIFICATE OF AUTHENTICATION

This is to certify & authenticate that the herbarium specimens provided by **Hardik Savsani**,
Department of Pharmacy, The Maharaja Sayajirao University of Baroda are of *Piper betle* L.
and *Rubia cordifolia* L.

Dr. Padamnabhi S. Nagar
Assistant Professor
Department of Botany
The M. S. University of Baroda
Vadodara - 390002

• Certificate of analysis of 2-apb and Eugenol

Certificate of Analysis		SIGMA-ALDRICH
Product Name	2-Aminoethyl diphenylborinate, 97%	
Product Number	D9754	
Product Brand	ALDRICH	
CAS Number	524-95-8	
Molecular Formula	$(C_6H_5)_2BOCH_2CH_2NH_2$	
Molecular Weight	225.09	
TEST	SPECIFICATION	LOT BCCC5729 RESULTS
PDF		Click here: Certificate of Analysis and Specifications only available in PDF format
		
Dr. Reinhold Schwenninger Quality Assurance Buchs, Switzerland		

HIMEDIA		Product Information
RM6992	Eugenol	
Product Number	Packing	
RM6992	: 100G	
Product Information		
Product Code	: RM6992	
Product Name	: Eugenol	
Synonym	: 4-Allylguaiacol; 4-Allyl-2-methoxyphenol	
Molecular Formula	: $C_{10}H_{12}O_2$	
Molecular Weight	: 164.20	
CAS No.	: 97-53-0	
EC No.	: 202-589-1	
HS Code	: 2909 50 00	
Other Information	: For synthesis	
Shelf Life	: 4 years	
Technical Specification		
Appearance	: Colourless to very dark yellow liquid (may darken in storage)	
Solubility	: 1 mL miscible in 1 mL of 70% ethanol	
FTIR (Liquid film)	: Matches with the standard pattern	
Refractive index (n 20/D)	: 1.540 - 1.542	
Density (at 25°C)	: 1.064 - 1.070 g/mL	
Assay	: min. 98.00 %	

• **H9c2 Cell line procurement**

Medium
DMEM, 90%
FBS, 10%.

ACKNOWLEDGEMENT

Dr. Hardik H. Savsani

Job Number: 1518

Name of Cell Line: H9c2 (2-1)

Cell Type: Adherent ~~Suspension~~

✓ Please note that the cell line sent to you are tested for sterility for 48 h and found to be free of bacterial and fungal contamination.

Date of Shipment: 28.7.15

Date of Receipt: _____

Parcel Condition: GOOD LEAKY BROKEN

Culture Condition on Arrival

<u>Sterility</u>	Good	Bacterial	Fungal Contamination
<u>PH</u>	Good	Acidic	Alkaline
<u>Condition</u>	Good	Granulation	Degeneration
<u>Population</u>	Good	Few Cells Sticking to Substratum	

✓ Please note that if cell line/s sent to you is a suspension cell culture then cells will not adhere to the substratum.

Any Other Remarks: _____

Name & Signature -----

❖ **Important Notes:**

- Please complete this form and send back immediately to us by mail /scanned signed copy by e-mail after receipt of cell line/s.
- Please note that the cell line sent to you is tested for sterility for 48 hrs. after processing and found to be free of bacterial and fungal contamination.
- For transport medium, serum supplementation is at a level of 2 percent only.
- Please visit the website and follow the instruction for handling of cell line on arrival.
- Replacement of cell line will be available only if the flasks received upon arrival is leaky or broken and in non-sterile condition.
- In case of any problem with the cell line/s upon arrival, immediate communication with NCCS is mandatory; complaints thereafter will not be attended.
- Contact us: curator@nccs.res.in, 020-25708248/8268/8050
 ☑ National Central for Cell Science(NCCS), University of Pune Campus, Ganeshkhind, Pune-411007

• **Institutional Animal Ethics Committee (IAEC) Approval**

Institutional Animal Ethics Committee
Pharmacy Department
(Reg. No. 404/01/a/CPCSEA)
The Maharaja Sayajirao University of Baroda
Vadodara




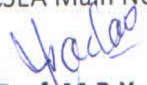
CERTIFICATE

This is to certify that the following project has been approved by the Institutional Animal Ethics Committee (IAEC), Pharmacy Department.

Protocol No.	: MSU/IAEC/2015-16/1507
Project title	: Pharmacological evaluation of Rubia Cordifolia and Piper betle in Isoproterenol induced Myocardial infarction.
Chief Investigator	: Hardik H. Savsani
Research Guide	: Dr. Kirti V. Patel




Dr. Bharat Gajjar
(CPCSEA Main Nominee)


Prof. M.R. Yadav
(Chairman, IAEC)

Date of Approval: 24/7/2015

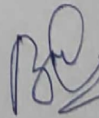
Institutional Animal Ethics Committee
Pharmacy Department
Old: 404/01/a/CPCSEA (25th April, 2001)
New: 404/PO/Re/S/01/CPCSEA (28th October, 2015)
The Maharaja Sayajirao University of Baroda
Vadodara

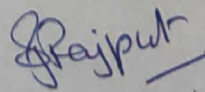


CERTIFICATE

This is to certify that the following project has been approved by the Institutional Animal Ethics Committee (IAEC), Pharmacy Department

Protocol No.	: MSU/IAEC/2018-19/1801
Project title	: Evaluating efficacy of <i>Piper betle</i> , <i>Rubia cordifolia</i> , Eugenol and 2-APB on Ag-II induced acute hypertension in vagotomized rat and their safety by acute and sub-acute toxicity.
Chief Investigator	: Hardik H. Savsani
Research Guide	: Dr. Kirti V. Patel


 Dr. Bharat Gajjar
 (CPCSEA Main Nominee)


 (Chairman, IAEC)

Date of Approval: 02/08/18