



College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW PGCET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

3.1.1 - SUMMARY REPORT

S.NO	Academic Year	Grants received from Government and non-governmental agencies	TOTAL (INR)
		Research projects	
1	2021-22	Formulation of baby nappy rash gel	100000
2	2020-21	National Level Faculty Development Programme	100000
3	2018-19	Preparation of Metadoxin 500mg tablets	400000
4	2018-19	Preparation of herbal hair oil	60000
Total:			660000

Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years: 660000

PRESENTATION TEMPLATE

S. No	Name of the principal Investigator	Amount (INR)	Related documents enclosed
1	Dr.A.K.Sailaja/Dr.K.V.Ratnamala	100000	3.1.1--Baby nappy rash gel sanction letter and report
2	DR.M.Sumakanth	100000	3.1.1--NATCO FDP 2020
3	Dr.A.K.Sailaja/Dr.K.V.Ratnamala	400000	3.1.1--Metadoxin sanction and report
4	Dr.K.V.Ratnamala	60000	3.1.1--Herbal_Homeopathic_Hair_oil

M. S. Kanth

PRINCIPAL

RBVRR Women's College of Pharmacy

(CC No: 1706)

Barkatpura, Hyderabad-500 027 (TS)



Registered & Corporate Office:

Leads Pharma Private Limited

4-3-775, BPS House, Lane Beside Hanuman Vyayamshala

Sultan Bazar, Hyderabad - 500 095, Telangana, India.

Tel: 040 2475 1444, 2475 1455, www.leadspharma.com

Email: bps@leadspharma.in, info@leadspharma.in

21st December 2021,
Hyderabad.

To,
The Principal,
RBVRR Women's College of Pharmacy,
Barkatpura,
Hyderabad.

Madam,

Sub: Allotment of Project work by Leads Pharma Private Limited- Reg

This letter is communicated to allot following project work to be completed by RBVRR Women's College of Pharmacy, Barkatpura, Hyderabad as a part of MOU

Title of the project: Preparation of Baby nappy rash gel

Leads Pharma will be providing the required API and Chemicals for the project work and will be crediting the payment to RBVRR Women's college Pharmacy upon completion of project. The timeline of the projects shall be 1year.

Looking forward for process review and budget proposal

Thanks and regards,

A handwritten signature in blue ink, reading 'B. Prabha Shankar', is written over a circular blue stamp.

Dr. B. Prabha Shankar
Managing director



College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGCET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

6th January 2022,
Hyderabad.

To,

Dr. B. Prabha Shankar,
Managing director,
Leads Pharma Private Ltd,
Hyderabad.

Sir,

Sub: Budget proposal of project titled Preparation of Baby nappy rash gel
In response to letter sent by Leads Pharma Pvt. Ltd dated 21st May 2019 this letter gives the following details of budget and faculty involved in project work

Institute	Man power Budget	Consumables	Travel	Contingency	Other Costs	Over head Costs	Total
RBVRR Women's college of Pharmacy	60000	10,000	5,000	15,000	5000	5000	1,00,000
Total	60000	10,000	5,000	15,000	5,000	5000	1,00,000

The Following are the faculty members who have been allotted as the principle investigator for the project titled:- Preparation of Baby nappy rash gel

Dr.A.K.Shailaja, Associate Professor, HOD Pharmaceutics
Dr. K.V.Ratnamala, Associate Professor

Looking forward for your response

Thanking you,

Prof. M.Sumakanth
Principal



College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGECET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

28th December 2022,
Hyderabad

To,

Dr. B. Prabha Shankar,
Managing director,
Leads Pharma Private Ltd,
Hyderabad.

Sir,

Sub: Request for extension of ongoing project work- Reg

We are currently working on following project as allotted by Leads Pharma

Title:- Preparation of Baby nappy rash gel

We were able to complete upto optimization parameters for baby nappy gel. Due to the post COVID busy academic Schedule we couldn't complete project as per the time. Hence we request you to extend the project duration for 6 months duration.

Looking forward for positive response.

Thanking you,

Prof. M.Sumakanth
Principal

6th January 2023,
Hyderabad

To,
The Principal,
RBVRR Women's College of Pharmacy,
Barkatpura,
Hyderabad.

Madam,

Sub: Extension of ongoing consultancy project - Reg

With respect to reference letter dated 28th December 2022, we would like to extend time period of ongoing consultancy projects at RBVRR Women's College of Pharmacy for a period of 6 months keeping in view of post COVID busy academic schedule. The budget amount will be credited upon completion of the projects.

Thanks and regards,



Dr. B. Prabha Shankar
Managing director



College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGCET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com


UTILIZATION CERTIFICATE

This is to confirm that an amount of Rs.1,00,000 (Rupees one lakh only) was received from Leads Pharma Private Limited, Hyderabad as research grant for undertaking an academic research project titled :- Preparation of Baby nappy rash gel

The said grant was utilized for the said purpose and the detailed statement of utilization is enclosed along with project Report duly signed by the Head of the Institution. The above grant is fully unitized for the research activity of RBVRR WCP, Barkatpura, Hyderabad

Financial Summary (in Rs.) for Formulation of baby nappy rash Gel

Budget Head	RBVRR Women's College of Pharmacy	Total (in Rs)	Details
Manpower	60000	60000	To be used for manpower involved in the project
Consumables	10,000	10,000	For procurement of drugs and other excipients, solvents etc.
Travel	5,000	5,000	For attending workshops, seminars and review meetings
Contingencies	15,000	15,000	Repair of instruments, membrane filters, stationary materials etc
Other cost	5000	5000	power is used from college, lab assistants help is needed for work so they need to be paid
Overhead	5000	5000	As the work is done in the college premises a total of 10 % is taken as overheads
Total	1,00,000	1,00,000	


Prof. M. Sumakanth
Principal

03	PROF M SUMAKANTH	AA199603	-	02032331	50,000.00		14,17,898.46
023	RAYNEE KIRTHI	AA606350	-	02032328	18,560.00		13,99,338.46
01-11-2023 16:26	J VEDHA SHREE	AA622841	-	02032329	18,560.00		13,80,778.46
01-11-2023 17:14:28	TO FATIMA UMAIRA SAEED	AA661387	-	02032307	18,804.00		13,61,974.46
04-11-2023 17:15:37	TO FATIMA UMERA SAEED	AA664561	-	02032326	20,860.00		13,41,114.46
06-11-2023 12:22:20	BY CASH	AA322687	-			7,500.00	13,48,614.46
06-11-2023 15:17:52	Refund-599756785	S87789602	-			1,280.00	13,49,894.46
06-11-2023 15:17:52	Refund-599756785	S87789602	-			1,293.00	13,51,187.46
06-11-2023 16:00:30	TIN/OTC/2311040029 0105	S90529655	-	02032332	38,000.00		13,13,187.46
07-11-2023 13:29:28	DEMULA JHANSI RANI	S26452670	-	2032318	18,000.00		12,95,187.46
07-11-2023 13:29:28	G SONY	S26452670	-	2032336	9,000.00		12,86,187.46
07-11-2023 17:54:44	BY INST 670459 : MICR OUT CL CHE-2	S38491413	-			3,00,000.00	15,86,187.46
08-11-2023 12:06:51	HT NO. 170622882011	AA290817	-			50,000.00	16,36,187.46
08-11-2023 14:33:21	K SNEHA	AA614902	-	02032330	18,560.00		16,17,627.46
09-11-2023 05:23:28	Cash Trans Chrg for Amt:25000.000000	S99049923	-		59.00		16,17,568.46
09-11-2023 12:21:20	chrgc rec for MICR CHEQUE ISSUE CHARGE	S10949137	-		885.00		16,16,683.46
09-11-2023 13:02:13	MS STUDIO PRIYDARSHINI	S13014569	-	2032341	15,700.00		16,00,983.46
11-11-2023 16:02:35	NEFT:Mr NAGA SIVANAND CHAVIDI SBIN523315826569	S13684070	Sender No:SBIN5233158 26569			55,000.00	16,55,983.46
15-11-2023 10:30:43	ePAY/To:BILLDESK PAYMENT S/601203250/	S57389202	-		3,606.00		16,52,377.46
15-11-2023 10:36:52	ePAY/To:BILLDESK PAYMENT S/601203855/	S57650715	-		388.00		16,51,989.46
15-11-2023 10:40:47	ePAY/To:BILLDESK PAYMENT S/601204268/	S57809732	-		33,482.77		16,18,506.69
15-11-2023 11:09:59	SELF	AA100650	-	02032345	12,000.00		16,06,506.69
15-11-2023 11:28:06	TIN/OTC/2311080001 6713	S59852676	-	02032343	135.00		16,06,371.69

415073

UNION BANK OF INDIA
STATEMENT OF ACCOUNT FOR THE PERIOD FROM 01-04-2023 to 18-10-2023 A/C : 039711100001547

DATE	PARTICULARS	CHQ. NO.	WITHDRAWALS	DEPOSITS	BALANCE
26-09-2023	SHAH BOOK HOUSE PVT LTD HYDERABAD, SERVICE BRANCH, HYDERABAD Collecting Bank BANK OF INDIA Collecting Branch ADYAR (ADR)	2032271	9,850.00		41,90,980.22Cr
26-09-2023	S RAVALIKA <i>3400</i>			10,000.00 ✓	42,00,980.22Cr
26-09-2023	PARIMALA			8,200.00 ✓	42,09,180.22Cr
26-09-2023	S IFFATH			5,500.00 ✓	42,14,680.22Cr
26-09-2023	V CHANDANA <i>Pharm D 2827</i>			5,500.00 ✓	42,20,180.22Cr
26-09-2023	N PRAVALIKA			5,500.00 ✓	42,25,680.22Cr
26-09-2023	U SAKSHI MAI TREYA			5,500.00 ✓	42,31,180.22Cr
26-09-2023	C SOUMYA			5,500.00 ✓	42,36,680.22Cr
26-09-2023	D NANDINI			5,500.00 ✓	42,42,180.22Cr
26-09-2023	B PAVANI <i>3217 e-pharm</i>			5,500.00 ✓	42,47,680.22Cr
26-09-2023	C ROOPA			5,500.00 ✓	42,53,180.22Cr
26-09-2023	2832			10,000.00 ✓	42,63,180.22Cr
26-09-2023	2810			37,530.00 ✓	43,00,710.22Cr
26-09-2023	2823			5,500.00 ✓	43,06,210.22Cr
26-09-2023	2824			5,500.00 ✓	43,11,710.22Cr
26-09-2023	BY CASH 2826 <i>Ch Krishnaveni B-Pharm</i>			5,500.00 ✓	43,17,210.22Cr
27-09-2023	Cash Trans Chrg for Amt:76230.000000		89.95		43,17,120.27Cr
27-09-2023	Sms Charges For Sept Qtr, 2023		17.70		43,17,102.57Cr
27-09-2023	BY CASH			60,880.00 ✓	43,77,982.57Cr
27-09-2023	BUSHRA HUSNA PHARMA D 1			50,050.00 ✓	44,28,032.57Cr
27-09-2023	K CHAITANYA SREE 170620881044			22,530.00 ✓	44,50,562.57Cr
27-09-2023	ePAY/To:BILLDESK PAYMENT S/596360438/		7,94,351.80		36,56,210.77Cr
29-09-2023	Cash Trans Chrg for Amt:83460.000000		98.48		36,56,112.29Cr
29-09-2023	BY INST 670458 : MICR OUT CL CHE-2 Drawee Bank YES BANK Drawee Branch YES BANK			2,00,000.00 ✓	38,56,112.29Cr
29-09-2023	GONE PRANATHI B PHARMACY 1ST YEAR			80,600.00 ✓	39,36,712.29Cr
30-09-2023	Cash Trans Chrg for Amt:30600.000000		59.00		39,36,653.29Cr
30-09-2023	ePAY/To:BILLDESK PAYMENT S/596632260/		20,805.90		39,15,847.39Cr
30-09-2023	5500*10			55,000.00 ✓	39,70,847.39Cr
30-09-2023	B AKANKSHA			20,000.00 ✓	39,90,847.39Cr
30-09-2023	BY CASH			1,10,000.00 ✓	41,00,847.39Cr
30-09-2023	T SHANVITHA			80,500.00 ✓	41,81,347.39Cr

11 x 5000 = 60500

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

10, MAYANK TOWERS, SURVEY NO.31 (OLD),31/2 (NEW)
N ROAD SOMAJIGUDA, HYDERABAD 500082
YES 510000006

Payable At Par At All Branches of YES BANK Ltd.

01112021
DDMMYY

BVRR WOMENS COLLEGE OF PHARMACY

or Branch
HYDRABAD

Three lakh rupees only

अदा करें ₹ 3,00,000/-

000684600000067

CURRENT

For LEADS PHARMA PRIVATE LIMITED



B. Krishna Shankar

Authorised Signatures
Please sign above

⑈670459⑈ 500532001⑈ 019052⑈ 29

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

10, MAYANK TOWERS, SURVEY NO.31 (OLD),31/2 (NEW)
N ROAD SOMAJIGUDA, HYDERABAD 500082
YES 510000006

Payable At Par At All Branches of YES BANK Ltd.

01082021
DDMMYY

BVRR WOMENS COLLEGE OF PHARMACY

or Branch
HYDRABAD

Two lakh rupees only

अदा करें ₹ 2,00,000/-

000684600000067

CURRENT

For LEADS PHARMA PRIVATE LIMITED



B. Krishna Shankar

Authorised Signatures
Please sign above

⑈670458⑈ 500532001⑈ 019052⑈ 29



EVALUATION OF HYDROGELS 3

9.1. Physical appearance

Color, Homogeneity and phase separation

All the formulated hydrogels were visually inspected for color, homogeneity and phase separation after they have been settled in the container immediately as well as regularly for an interval of 30 days duration.

Grittiness

All the formulations were evaluated microscopically for presence of any appreciable particulate matter.

Measurement of pH

pH is one of the most important parameters involved in the evaluation of Hydrogels. The pH values has an effect on the balance of the ionized and unionized form of the drug, and ionized and unionized forms of the drug would show different penetration behavior. The pH of all the formulations was evaluated by taking 1g of each hydrogel in 10ml beaker and measured using calibrated digital pH meter at room temperature. The measurement of each formulation is done in triplicate and average value is noted^{3,14}.

Spreading Coefficient

Spreading coefficient was determined by apparatus suggested by Mutimer. It consists of a wooden block, which is attached to a pulley at one end. Spreading coefficient was measured on the basis of 'Slip' and 'Drag' characteristics of hydrogels. A ground glass slide was fixed on the wooden block. An excess of hydrogel (about 2 g) under study was placed on this ground slide. The hydrogel preparation was then sandwiched between this slide and second glass slide having same dimension as that of the fixed ground slide. The second glass slide is provided with the hook. Weight of 500 mg was placed on the top of the two slides for 5 min to expel air and to provide a uniform film of the hydrogel between the two slides. Measured quantity of weight was placed in the pan attached to the pulley with the help of hook. The time (in s) required by the top slide to cover a distance of 5 cm was noted. A shorter interval indicates better spreading coefficient.

The spreadability was then calculated from the following equation:

$$\mathbf{S = m \times L/T}$$

Where,

S = Spreadability

L = length of the glass plate used
M = weight tied to the upper slide

T = time taken to separate slide completely from each other

Spreadability was measured in terms of g.cm/sec

Extrudability

The method adopted for evaluating gel formulation for extrudability was based upon the quantity in percentage of gel extruded from lacquered aluminum collapsible tube on application of weight in grams required to extrude at least 0.5 cm ribbon of gel in 10 seconds. More the quantity extruded better was extrudability. The measurement of extrudability of each formulation was in triplicate and the average values were presented.

The extrudability was then calculated by using the following formula:

$$\% \text{Extrudability} = \frac{[I_w - F_w]}{I_w} \times 100$$

Where,

I_w = initial weight of product present in collapsible tube

F_w = final weight of the product present in collapsible tube after extrusion.

Viscosity

The viscosity of the formulated preparations was determined using brook field Viscometer with spindle no 64 (Brookfield Engineering Laboratories). The assembly was connected to a thermostatically controlled circulating water bath maintained at 25 °C. The formulation whose viscosity was to be determined was added to a beaker covered with thermostatic jacket. Spindle was allowed to pass into the hydrogel and the reading was noted at maximum 30 rpm.

Physical Appearance: Various formulations of the prepared hydrogel were inspected visually for their color, homogeneity, consistency and phase separation. The results in Table 4.6 indicates that all the formulation F1 to F2, F7 to F10, F11 to F12 and F17 to F20 appeared homogenous, white with smooth consistency. Formulation F3 to F6 and F13 to F16 were observed to be non-homogenous after keeping for 1 1/2 months

Table 4.5 Physical properties of prepared hydrogel formulations

Formulation Code	Color	Consistency	Homogeneity	Non homogeneity
F1-F2	White	Smooth	Homogenous	-ve
F3-F6	White	Smooth	Homogenous	+ve
F7-F10	White	Smooth	Homogenous	-ve
F11-F12	White	Smooth	Homogenous	-ve
F13-F16	White	Smooth	Homogenous	+ve
F17-F20	White	Smooth	Homogenous	-ve

Measurement of pH

The pH of hydrogels of Beta-glucan was determined by using calibrated pH meter. The readings were taken as an average of three sample readings. The pH values exhibited by the hydrogels are found to be in the range of 6 to 8 as tabulated in the table 4.6. Hence, all the formulations were observed to be in normal pH range of the skin and would not produce any skin irritation.

Table 4.6 pH of prepared formulations

Formulation code	pH	Formulation code	pH
F1	6.66±0.03	F11	6.52±0.03
F2	6.15±0.04	F12	7.03±0.08
F3	6.26±0.04	F13	6.1±0.05
F4	7.69±0.03	F14	7.02±0.015
F5	6.51±0.04	F15	7.24±0.03
F6	7.25±0.04	F16	6.5±0.13
F7	7.11±0.04	F17	7.1±0.08
F8	7.36±0.03	F18	7.30±0.013
F9	6.64±0.01	F19	7.41±0.02
F10	6.56±0.03	F20	6.91±0.04

Standard deviation(n=3)

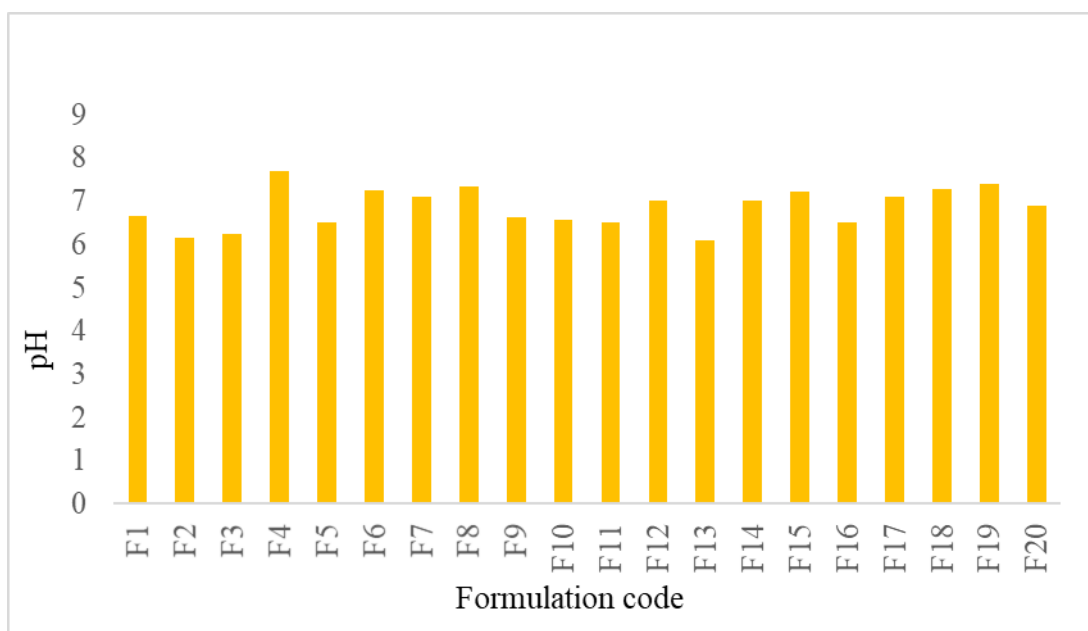


Figure 4.4 Graph representing pH of prepared hydrogel formulations

Spreadability studies

Spreadability is one of the essential criteria for a hydrogel. Spreadability is expressed to denote the extent of the area on which the gel readily spreads on application to the skin. Spreadability depends on viscosity of the formulation. The higher the viscosity of the formulation the poorer spreadability it also depends on the polymer the formulation, possessing typical physicochemical properties, which create surface tension between slide and product. The hydrogels are expected to spread easily on the skin areas when applied. Among all the above formulations, F1, F9, F11, F18, F19 were showing satisfactory spreadability values. The values were ranging (0.211 gms.cm/min -10.9 gms.cm/min) as shown in Table 4.7 and Fig 4.6.

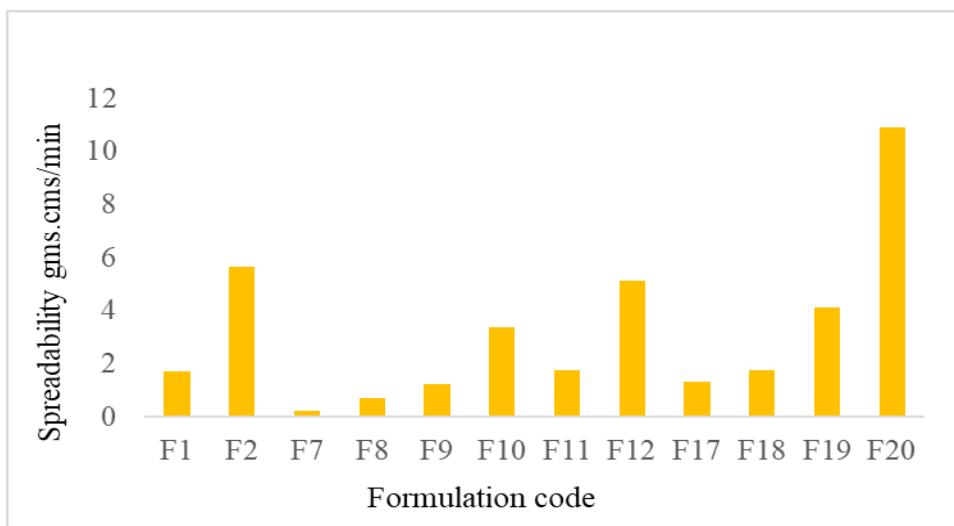


Figure 4.6 Graph representing spreadability of prepared hydrogel formulations

Extrudability test

The extrudability is one of the prerequisites of an ideal formulation. The extrudability was determined as per the method mentioned using a weight of 500 gms using collapsible aluminum tube. Among all the above formulations F1, F9, F11, F18, F19 were showing satisfactory extrudability with values. The extrudability values were ranging (2.36%E - 13.08%E) as shown in Table 4.7 and Fig 4.7

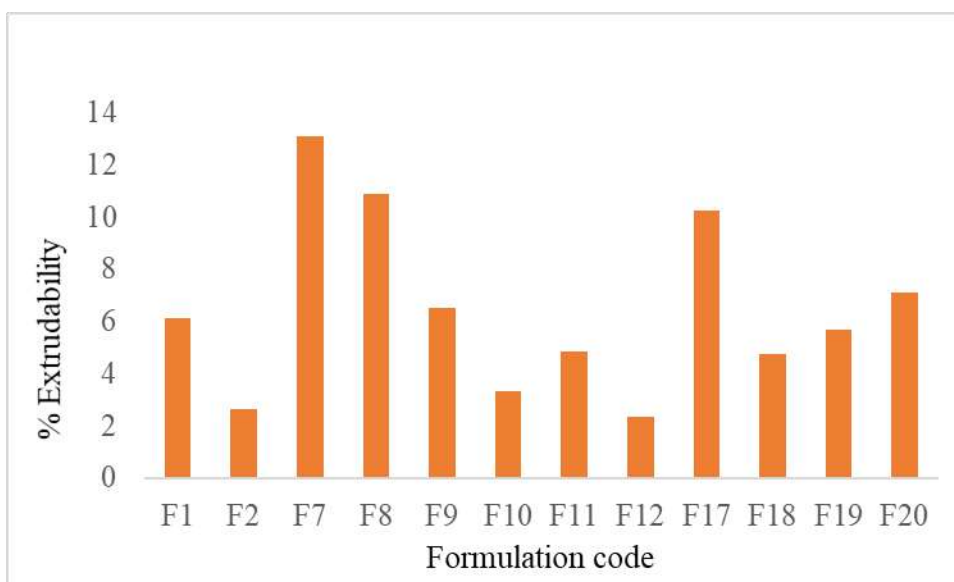


Figure 4.7 Graph representing Extrudability of prepared hydrogel formulations

Viscosity determination

The viscosity of gel formulations reflects consistency. The viscosity of these gels decreases with increasing rate of shear, showed with non-Newtonian flow (shear thinning); this behavior is preferred due to its low flow resistance when applied at high shear conditions.

Formulated hydrogels were evaluated for viscosity using Brook field Viscometer using spindle no 64 at 30 rpm and the results were tabulated in the Table 4.7 and Fig 4.8. The viscosity values were ranging (6529 Cps-23730 Cps).

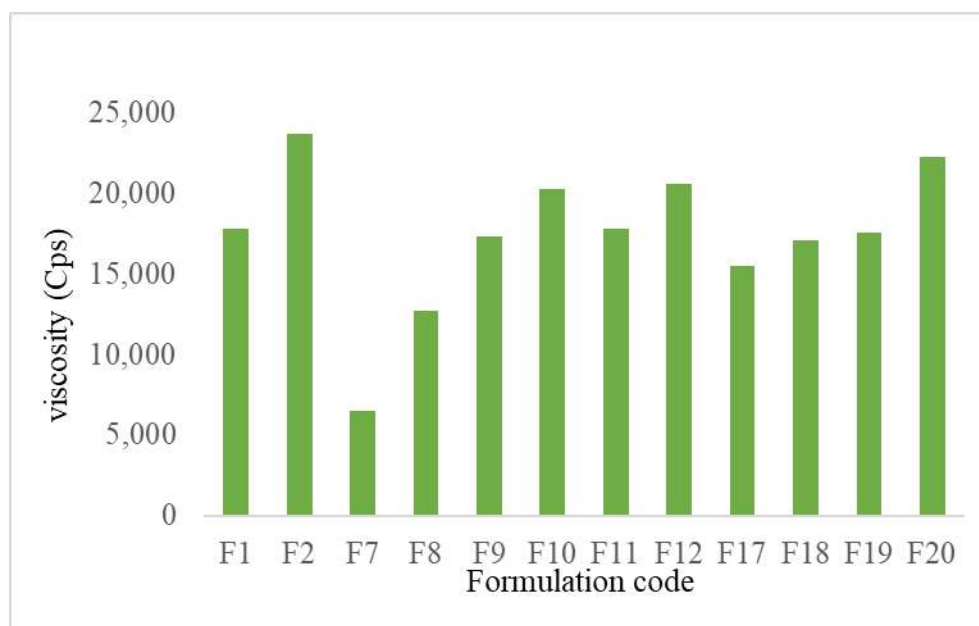


Figure 4.8 Graph representing viscosities of prepared hydrogel formulations

Table 4.7 Different evaluation tests of formulated hydrogel

Formulation code	Non Homogeneity	pH	Drug content	Spreadability gms.cms/min	Extrudability	viscosity
F1	-ve	6.66±0.03	100.9±0.3	1.723±0.02	6.12±0.09	17,828
F2	-ve	6.15±0.04	91.56±1.01	5.67±0.014	2.66±0.17	23,730
F7	-ve	7.11±0.04	90.93±1.8	0.221±0.05	13.08±0.03	6,529
F8	-ve	7.36±0.03	97.18±0.91	0.74±0.03	10.87±0.16	12,730
F9	-ve	6.64±0.01	99.06±0.5	1.26±0.021	6.54±0.02	17,320
F10	-ve	6.56±0.03	90.31±0.58	3.38±0.05	3.35±0.14	20,236
F11	-ve	6.52±0.03	99.06±1.07	1.76±0.03	4.84±0.02	17,770
F12	-ve	7.03±0.08	94.06±1.5	5.14±0.06	2.36±0.10	20,569
F17	-ve	7.1±0.08	95.93±0.35	1.32±0.03	10.27±0.07	15,480
F18	-ve	7.30±0.013	99.06±0.37	1.76±0.01	4.77±0.05	17,100
F19	-ve	7.41±0.02	96.56±1.6	4.15±0.04	5.67±0.03	17,547
F20	-ve	6.91±0.04	89±1.2	10.9±0.04	7.10±0.01	22,298

Standard deviation(n=3)

Experimental Design

From the above evaluation tests and invitro drug release it was found that F1 formulation formulated using 0.250g of carbapol and 0.05gm of guar gum was showing best results when compared to the remaining formulations. In order to optimize the concentration of polymers used in the F1 formulation, two factorial design was opted. Concentrations of carbapol 934 and guar gum are independent variables. Invitro drug release, viscosity, spreadability are dependent variables.

A 2² factorial design was employed where the amounts of two carriers (factors) were varied at two levels as hypothesized by the Design Expert 13 (32-bit) software (Stat-Ease Inc., Minneapolis, USA). The amount of polymer carbapol 934 (A) and guar gum (B) were selected as factors and studied at two levels. Invitro release (Y1), Viscosity (Y2), and Spreadability(Y3) were taken as the response variables.

Std	Run	Factor 1 A:A	Factor 2 B:B	Response 1 R1	Response 2 R2	Response 3 R3
1	1	0.125	0.01			
2	2	0.125	0.01			
3	3	0.5	0.01			
4	4	0.5	0.01			
5	5	0.125	0.07			
6	6	0.125	0.07			
7	7	0.5	0.07			
8	8	0.5	0.07			
9	9	0.5	0.01			
10	10	0.125	0.045			
11	11	0.25	0.045			
12	12	0.1875	0.0475			
13	13	0.1875	0.0475			
14	14	0.125	0.05			
15	15	0.5	0.07			

Figure 4.10 Runs generated by the software

All formulations in the formulation table 4.9 were prepared in laboratory and evaluation tests were conducted. The results were tabulated in table 4.10

Table 4.9 Formulation table of two factorial design

Formulation Code	Carbapol 934	Guar gum
F21	0.125g	0.01g
F22	0.5g	0.01g
F23	0.125g	0.07g
F24	0.5g	0.07g
F25	0.125g	0.045g
F26	0.25g	0.045g
F27	0.1875g	0.0475g
F28	0.125g	0.05g

Finally the following combination was showing the best result.

List and composition of gel formulation:

Ingredients	Formulation
Carbopol 934	0.125 g
Guar gum	0.05 g
Triethanolamine	q.s
Menthol	5 ml
Methyl paraben 0.5%	0.2ml
Propyl paraben 0.2%	0.1ml
Distilled water	upto 10ml
NaOH	q.s
Total weight	20 gr

Dr. G. Subhash Chandar
MBBS, FCGP, MF Hom.(U.K.)



Cell: 98661 96309 / 90300 38090
drsubhaash@gmail.com
www.newlifehomeocare.com

To
The Principal
RBVRR Women's college of Pharmacy
Barkathpura
Hyderabad

19-08-2019

Madam,

Sub:-Allotment of Project entitled "**Preparation of Herbal Hair oil**" -Reg

This Letter is communicated with reference to the subject Above to RBVRR Women's college of Pharmacy, Barkatpura, Hyderabad.

New life Integrated Health Care and Specialty Homeo care is providing the estimated Worth of Rs 60,000/- materials for the formulation of Herbal hair oil to RBVRR Women's college of Pharmacy for the complete project work. The Timeline for the project shall be 1 year.

Looking forward for the process review

Thanks and Regards

A handwritten signature in black ink, appearing to read "G. Subhash Chandar".

Signed for and on behalf of
**New Life, Integrated Health Care
and Speciality Homeocare**
By:
Name: Dr. G Subash Chander
Title: Managing Director



A handwritten signature in green ink, appearing to read "M. S. Ramesh".
PRINCIPAL
RBVRR Women's College of Pharmacy
(CC No: 1706)
Barkatpura, Hyderabad-500 027 (TS)

NEW LIFE - Integrated Health Care & Speciality Homeo Care
For Chronic & Difficult Diseases
Plot 64, Sowjanya Colony, (East Gate) New Bowenpally, Secunderabad-11, T.S.



College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by the AICTE, PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGECET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

PROJECT REPORT ON

HERBAL HOMEOPATHIC HAIR OIL

Introduction:

Hair oils are widely used in India for hair care. Indigenously available herbal ingredients are used to make hair oils. However, nowadays, synthetic products are also used as perfume and colouring of hair oils. Traditionally hair oils are made from vegetable oils such as sesame seeds oil, castor oil, coconut, etc. But now petroleum white oils are used in the formulation of hair oils to reduce cost and improve product quality. These oils are causing different problems after application.

The current project that is herbal homeopathic hair oil is focussed majorly to improve growth of hair and to reduce hair fall.

Raw materials:

Weisbaden: 0.04ml

Cantharis: 0.04ml

Jabarandi: 1.07ml

Bacopa Monneiri (Brahmi): 0.04ml

Coconut oil: Upto 100 ml

Weisbaden Helps strengthen hair follicles. Stimulates hair growth and minimises hair fall.

Cantharidin is the active principle which is present in cantharis which is used to treat alopecia. This is extracted from Spanish fly which is very soluble in oils.

Jaborandi is obtained from *Pilocarpus jaborandi* which is soluble in water (5-10%). Jaborandi is a natural hair tonic which helps strengthen hair follicles and reduces hair fall.

Brahmi helps in treating temporary baldness by boosting hair growth in areas where hair has thinned out or reduced. It also helps reduce hair loss by treating dandruff and reduces inflammation. Its regular use provides a calm and soothing experience.

(Handwritten Signature)

PRINCIPAL
RBVRR Women's College of Pharmacy
(CC No: 1706)
Barkathpura, Hyderabad-500 027 (TS)

Coconut oil has many benefits for hair. It is used to relieve dandruff, restore luster to dry and damaged hair, tame frizz, and protect hair against styling damage. It is safe to use on most hair types.

A small quantity of rose oil extract was used as a perfume.

Formulation:

All the ingredients are provided as tinctures by Dr. Subash chander in form of strong tinctures.

The oil is formulated by mixing all the required quantity of tinctures thoroughly in a beaker until a homogenous mixture is formed. To this mixture small quantity of Tween 80 (0.09ml) was added to emulsify the tinctures in coconut oil. Then coconut oil was added slowly with mixing until a homogenous mixture is formed. At last, rose extract was added as a perfume.

The preparation was tested for stability by keeping at a temperature of 4-8°C and at 45°C for a period of about three months. There were no physical or chemical changes observed in the hair oil.


Hence the aim of the project to prepare herbal homeopathic hair oil was achieved.

Project given by:

Dr. G. Subash Chander
New Life Integrated health care and Speciality Homeocare
Plot 64, Soujanya colony, New Bowenpally,
Secunderabad 11
Ph: 9866196309

Project done by:

Dr.K.V.Ratnamala,
Associate Professor,
RBVRR Women's College of Pharmacy,
Barkatpura,Hyderabad.


PRINCIPAL
RBVRR Women's College of Pharmacy
(CC No: 1706)
Barkatpura, Hyderabad-500 027 (TS)



RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500027, Ph: 040-27563065

(Approved by AICTE & PCI, Accredited by NBA (B Pharmacy Course) Affiliated Osmania University)

EAMCET Code: RBVW | PGECET Code: RBVW1


5-03-2020

UTILIZATION CERTIFICATE

Financial Summary (in Rs.60,000) for Research Project:-Preparation of Herbal Hail oil

Budget Head	RBVRR Women's College of Pharmacy	Total (in Rs)	Details
Manpower	5000	5000	To be used for manpower involved in the project
Raw materials/ Consumables	45,000	45,000	Raw materials like Weisbaden Cantharis Jabarandi Bacopa Monneiri (Brahmi) Coconut oil
Equipment	10000	10000	Dissolution studies
Total	60,000	60,000	

Principal
RBVRRWCP


PRINCIPAL
RBVRR Women's College of Pharmacy
(CC No: 1706)
Barkathpura, Hyderabad-500 027 (TS)

12th October 2018,
Hyderabad.

To,
The Principal,
RBVRR Women's College of Pharmacy,
Barkatpura,
Hyderabad.

Madam,

Sub: Allotment of Project work by Leads Pharma Private Limited- Reg

This letter is communicated to allot following project work to be completed by RBVRR Women's College of Pharmacy, Barkatpura, Hyderabad as a part of MOU

Title of the project: Preparation of Metadoxine 750 mg and 500 mg Tablets

Leads Pharma will be providing the required API and Chemicals for the project work and will be crediting the payment to RBVRR Women's college Pharmacy upon completion of project. The timeline of the projects shall be 3years.

Looking forward for process review and budget proposal

Thanks and regards,



Dr. B. Prabha Shankar
Managing director





College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGCET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

16th November, 2018,
Hyderabad.

To,

Dr. B. Prabha Shankar,
Managing director,
Leads Pharma Private Ltd,
Hyderabad.

Sir,

Sub: Budget proposal of project titled Preparation of Metadoxine 750 mg and 500 mg Tablet

In response to letter sent by Leads Pharma Pvt. Ltd dated 12th October 2018 this letter gives the following details of budget and faculty involved in project work

Institute	Man power Budget	Consumables	Travel	Contingency	Other Costs	Over head Costs	Total
RBVRR Women's college of Pharmacy	1,75,000	50000	10,000	100000	50000	15000	4,00,000
Total	1,75,000	50000	10,000	100000	50000	15000	4,00,000

The Following are the faculty members who have been allotted as the principle investigator for the project titled:-Preparation of Metadoxine 750 mg and 500 mg Tablet.

Dr.A.K.Shailaja, Associate Professor, HOD Pharmaceutics

Dr. K.V.Ratnamala, Associate Professor

Looking forward for your response

Thanking you,


Prof. M. Sumakanth
Principal



College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065. Mobile: +91 9848930555

(Approved by PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGCET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

8th February 2021.
Hyderabad

To,

Dr. B. Prabha Shankar,
Managing director,
Leads Pharma Private Ltd,
Hyderabad.

Sir,

Sub: Request for extension of ongoing project works- Reg

We are currently working on following projects as allotted by Leads Pharma
Title:- Preparation of Metadoxine 750 mg and 500 mg Tablets

We were able to complete upto optimization parameters for metadoxine tablets. Due to the COVID pandemic we couldn't complete project as per the schedule within the time. Hence we request you to extend the project duration for 2 yrs duration.

Looking forward for positive response.

Thanking you,

Prof. M. Sumakanth
Principal



Registered & Corporate Office:
Leads Pharma Private Limited
4-3-775, BPS House, Lane Beside Hanuman Vyayamshala
Sultan Bazar, Hyderabad - 500 095, Telangana, India.
Tel: 040 2475 1444, 2475 1455, www.leadspharma.com
Email: bps@leadspharma.in, info@leadspharma.in

26th February 2021,
Hyderabad

To,
The Principal,
RBVRR Women's College of Pharmacy,
Barkatpura,
Hyderabad.

Madam,

Sub: Extension of ongoing consultancy projects - Reg

With respect to reference letter dated 8th February 2021 we would like to extend time period of ongoing consultancy projects at RBVRR Women's College of Pharmacy for a period of Two years keeping in view of COVID 19 pandemic. The budget amount will be credited upon completion of the project.

Thanks and regards,

A handwritten signature in blue ink, appearing to read 'B. Prabha Shankar', is written over a circular blue stamp.

Dr. B. Prabha Shankar
Managing director





College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGECET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

UTILIZATION CERTIFICATE

This is to confirm that an amount of Rs.4,00,000 (Rupees Four lakh only) was received from Leads Pharma Private Limited, Hyderabad as research grant for undertaking an academic research project titled :- **Preparation of Metadoxine 750 mg and 500 mg Tablets**

The said grant was utilized for the said purpose and the detailed statement of utilization is enclosed along with project Report duly signed by the Head of the Institution. The above grant is fully unitized for the research activity of RBVRR WCP, Barkatpura, Hyderabad.

Financial Summary (in Rs.) for Formulation of Metadoxine tablets

Budget Head	RBVRR Women's College of Pharmacy	Total (in Rs)	Details
Manpower	75,000	75,000	To be used for manpower involved in the project
Consumables	1,00,000	1,00,000	For procurement of drugs and other excipients, solvents etc.
Travel	10,000	10,000	For attending workshops, seminars and review meetings
Contingencies	1,00,000	1,00,000	Repair of instruments, membrane filters, stationary materials etc
Other cost	50,000	50,000	power is used from college, lab assistants help is needed for work so they need to be paid
Equipment	25000	25000	HPLC columns
Overhead	40000	40000	As the work is done in the college premises a total of 10 % is taken as overheads
Total	4,00,000	4,00,000	


Prof. M. Sumakanth
Principal

03	PROF M SUMAKANTH	AA199603	-	02032331	50,000.00		14,17,898.46
023	RAYNEE KIRTHI	AA606350	-	02032328	18,560.00		13,99,338.46
01-11-2023 16:26	J VEDHA SHREE	AA622841	-	02032329	18,560.00		13,80,778.46
01-11-2023 17:14:28	TO FATIMA UMAIRA SAEED	AA661387	-	02032307	18,804.00		13,61,974.46
04-11-2023 17:15:37	TO FATIMA UMER A SAEED	AA664561	-	02032326	20,860.00		13,41,114.46
06-11-2023 12:22:20	BY CASH	AA322687	-			7,500.00	13,48,614.46
06-11-2023 15:17:52	Refund-599756785	S87789602	-			1,280.00	13,49,894.46
06-11-2023 15:17:52	Refund-599756785	S87789602	-			1,293.00	13,51,187.46
06-11-2023 16:00:30	TIN/OTC/2311040029 0105	S90529665	-	02032332	38,000.00		13,13,187.46
07-11-2023 13:29:28	DEMULA JHANSI RANI	S26452670	-	2032318	18,000.00		12,95,187.46
07-11-2023 13:29:28	G SONY	S26452670	-	2032336	9,000.00		12,86,187.46
07-11-2023 17:54:44	BY INST 670459 : MICR OUT CL CHE-2	S38491413	-			3,00,000.00	15,86,187.46
08-11-2023 12:06:51	HT NO. 170622882011	AA290817	-			50,000.00	16,36,187.46
08-11-2023 14:33:21	K SNEHA	AA614902	-	02032330	18,560.00		16,17,627.46
09-11-2023 05:23:28	Cash Trans Chrg for Amt:25000.000000	S99049923	-		59.00		16,17,568.46
09-11-2023 12:21:20	chrgc rec for MICR CHEQUE ISSUE CHARGE	S10949137	-		885.00		16,16,683.46
09-11-2023 13:02:13	MS STUDIO PRIYDARSHINI	S13014569	-	2032341	15,700.00		16,00,983.46
11-11-2023 16:02:35	NEFT:Mr NAGA SIVANAND CHAVIDI SBIN523315826569	S13684070	Sender No:SBIN5233158 26569			55,000.00	16,55,983.46
15-11-2023 10:30:43	ePAY/To:BILLDESK PAYMENT S/601203250/	S57389202	-		3,606.00		16,52,377.46
15-11-2023 10:36:52	ePAY/To:BILLDESK PAYMENT S/601203855/	S57650715	-		388.00		16,51,989.46
15-11-2023 10:40:47	ePAY/To:BILLDESK PAYMENT S/601204268/	S57809732	-		33,482.77		16,18,506.69
15-11-2023 11:09:59	SELF	AA100650	-	02032345	12,000.00		16,06,506.69
15-11-2023 11:28:06	TIN/OTC/2311080001 6713	S59852676	-	02032343	135.00		16,06,371.69

415073

UNION BANK OF INDIA
STATEMENT OF ACCOUNT FOR THE PERIOD FROM 01-04-2023 to 18-10-2023 A/C : 039711100001547

Online Inquiry

powappsiv18, SR670492

DATE	PARTICULARS	CHQ. NO.	WITHDRAWALS	DEPOSITS	BALANCE
26-09-2023	SHAH BOOK HOUSE PVT LTD HYDERABAD, SERVICE BRANCH, HYDERABAD	2032271	9,850.00		41,90,980.22Cr
	Collecting Bank BANK OF INDIA				
	Collecting Branch ADYAR (ADR)				
26-09-2023	S RAVALIKA <i>3400</i>			10,000.00 ✓	42,00,980.22Cr
26-09-2023	PARIMALA			8,200.00 ✓	42,09,180.22Cr
26-09-2023	S IFFATH			5,500.00 ✓	42,14,680.22Cr
26-09-2023	V CHANDANA <i>Pharm D 2827</i>			5,500.00 ✓	42,20,180.22Cr
26-09-2023	N PRAVALIKA			5,500.00 ✓	42,25,680.22Cr
26-09-2023	U SAKSHI MAI PREYA			5,500.00 ✓	42,31,180.22Cr
26-09-2023	C SOUMYA			5,500.00 ✓	42,36,680.22Cr
26-09-2023	D NANDINI			5,500.00 ✓	42,42,180.22Cr
26-09-2023	B PAVANI <i>3217 e-pharm</i>			5,500.00 ✓	42,47,680.22Cr
26-09-2023	C ROOPA			5,500.00 ✓	42,53,180.22Cr
26-09-2023	2832			10,000.00 ✓	42,63,180.22Cr
26-09-2023	2810			37,530.00 ✓	43,00,710.22Cr
26-09-2023	2823			5,500.00 ✓	43,06,210.22Cr
26-09-2023	2824			5,500.00 ✓	43,11,710.22Cr
26-09-2023	BY CASH 2826 <i>Ch Krishnaveni B-Pharm</i>			5,500.00 ✓	43,17,210.22Cr
27-09-2023	Cash Trans Chrg for Amt:76230.000000		89.95		43,17,120.27Cr
27-09-2023	Sms Charges For Sept Qtr, 2023		17.70		43,17,102.57Cr
27-09-2023	BY CASH			60,880.00 ✓	43,77,982.57Cr
27-09-2023	BUSHRA HUSNA PHARMA D 1			50,050.00 ✓	44,28,032.57Cr
27-09-2023	K CHAITANYA SREE 170620881044			22,530.00 ✓	44,50,562.57Cr
27-09-2023	ePAY/To:BILLDESK PAYMENT S/596360438/		7,94,351.80		36,56,210.77Cr
29-09-2023	Cash Trans Chrg for Amt:83460.000000		98.48		36,56,112.29Cr
29-09-2023	BY INST 670458 : MICR OUT CL CHE-2			2,00,000.00 ✓	38,56,112.29Cr
	Drawee Bank YES BANK				
	Drawee Branch YES BANK				
29-09-2023	GONE PRANATHI B PHARMACY 1ST YEAR			80,600.00 ✓	39,36,712.29Cr
30-09-2023	Cash Trans Chrg for Amt:30600.000000		59.00		39,36,653.29Cr
30-09-2023	ePAY/To:BILLDESK PAYMENT S/596632260/		20,805.90		39,15,847.39Cr
30-09-2023	5500*10			55,000.00 ✓	39,70,847.39Cr
30-09-2023	B AKANKSHA			20,000.00 ✓	39,90,847.39Cr
30-09-2023	BY CASH			1,10,000.00 ✓	41,00,847.39Cr
30-09-2023	T SHANVITHA			80,500.00 ✓	41,81,347.39Cr

11 x 5000 = 60500

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

10, MAYANK TOWERS, SURVEY NO.31 (OLD),31/2 (NEW)
N ROAD SOMAJIGUDA, HYDERABAD 500082
YES 5100000006

Payable At Par At All Branches of YES BANK Ltd.

01112021
DDMMYY

BVRR WOMENS COLLEGE OF PHARMACY

or Bearer
Payee

Three lakh rupees only

अदा करें ₹ 3,00,000/-

000684600000067

CURRENT

For LEADS PHARMA PRIVATE LIMITED



B. Krishna Shankar

Authorised Signatures
Please sign above

670459 500532001 019052 29

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

10, MAYANK TOWERS, SURVEY NO.31 (OLD),31/2 (NEW)
N ROAD SOMAJIGUDA, HYDERABAD 500082
YES 5100000006

Payable At Par At All Branches of YES BANK Ltd.

01082021
DDMMYY

BVRR WOMENS COLLEGE OF PHARMACY

or Bearer
Payee

Two lakh rupees only

अदा करें ₹ 2,00,000/-

000684600000067

CURRENT

For LEADS PHARMA PRIVATE LIMITED



B. Krishna Shankar

Authorised Signatures
Please sign above

670458 500532001 019052 29





College Code: 1706

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by the AICTE, PCI & Affiliated to Osmania University)

Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGCET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

PROJECT REPORT ON

PREPARATION OF METADOXINE 750mg TABLETS

INTRODUCTION:

Metadoxine is an antioxidant. It works by protecting the liver from harmful chemical substances (free radicals). It also works by increasing alcohol elimination from the blood and tissues, thus preventing liver damage. Metadoxine belongs to a class of medicines known as hepatoprotective medicines which means that they protect the liver. It is used to treat chronic and acute alcohol intoxication. Metadoxine accelerates alcohol clearance from the blood and therefore, also helps in the treatment of fatty liver due to alcoholism. It is available in the market in 500mg doses.

The aim of the current project is to formulate and evaluate metadoxine 750mg tablets by using various polymers.

MATERIALS USED:

Metadoxine which is supplied by LEADS pharma

Talc

Magnesium stearate

Avicel PH 101 and 102

PVP

Ethyl cellulose

METHODOLOGY:

Characterization of API:

The API sample was subjected to pre-formulation studies such as visual appearance, micromeritics determination and API excipient compatibility. Granules ready for compression were evaluated for flow properties, loss on drying, particle size analysis

Compatibility study:

API's compatibility study with multiple commonly used excipients to understand the physical and chemical interaction between them in the proposed formulation system. The suggested excipients were mixed with the API based on their level of use in the appropriate ratio selected. As a control, the API and excipients alone were also subjected to study.

Preparation of Tablets:

The tablets were prepared by two methods by using selected excipients. They were compressed by using direct compression and wet granulation methods using 12mm punch on 10 station tablet compression machines.

Evaluation of Tablets:

Prepared tablets were evaluated for in-process quality control test and evaluated for dissolution test using USP Type II (Paddle) Dissolution apparatus.

Stability analysis:

The prepared tablets were subjected to stability analysis for 6 months according to ICH guidelines.

Project Allotted by:

LEADS Pharma Pvt.LTD

Project done by

1. Dr.A.Krishna Shailaja
HOD, Dept. of Pharmaceutics, Professor
RBVRR Women's college of Pharmacy.
2. Dr.K.V.Ratnamala
Associate professor
RBVRR Women's college of Pharmacy.



Natco Pharma Limited

Regd. Off. : 'NATCO HOUSE', Road No. 2, Banjara Hills, Hyderabad - 500034.
Telangana, INDIA. Tel : +91 40 23547532, Fax : +91 40 23548243
CIN : L24230TG1981PLC003201, www.natcopharma.co.in

To,

The Principal

Raja Bahadur Venkatarama Reddy Womens College of Pharmacy

Barkatpura,

Hyderabad - 500027.

Sub: Sanction of Research grant for upgradation of professional skills of Rs One Lakh for RBVRRWCP- Reg.

Madam,

With Reference to your subject cited NATCO Pharma Ltd Sanctioned a cheque bearing 081851 dated 28.01.2020 of Rs 98,000 after deduction of TDS for the Research grant to RBVRRWCP for the upgrading the professional skills of the faculty members by conducting Faculty Development Programmes

We hope this association will help Academic institutions and Society at large.

With best Compliments,

A handwritten signature in blue ink is positioned to the left of a circular stamp. The stamp contains the text "NATCO PHARMA LTD." around the top edge and "HYDERABAD" around the bottom edge, with two small stars on either side of the word "HYDERABAD".

(A. LAKSHMINARAYANA)

VICE PRESIDENT - HR.

IndusInd Bank

IndusInd Bank Limited
Corporate Branch: 1-B-448, Sarjarpur Patel Road,
Anand, Gujarat-388 003
CIN: I080000004

Valid for 3 months from the date of issue

Date: 28.01.2020
D D M M Y Y Y Y

PRINCIPAL, RBVRR WOMEN'S COLLEGE OF PHARMACY

Or Order

NINETY-EIGHT THOUSAND AND PAISE ZERO ONLY

उसके आदेश पर

₹ 98000.00

For NATCO PHARMA LTD

200000319957

[Signature] *M.S. Kaur*

Authorised Signatory(ies)
Please sign above

⑈081851⑈ 500234002⑈ 300019⑈ 29

M/s. Natco Limited
FDP-Programme.

NATIONAL LEVEL
FACULTY DEVELOPMENT PROGRAMME
ON

“MODERN TEACHING-LEARNING
TECHNIQUES IN PHARMACEUTICAL SCI-
ENCES WITH HANDS ON EXPERIENCE”

(27th - 31st JANUARY 2020)

REGISTRATION FORM

Name (in capital).....

Education Qualification.....

Designation.....

Department.....

Area of Research.....

Name of the Institution.....

Address for

Correspondence.....

Mobile No.....

Email ID.....

Date: Place:

Signature of the Applicant.....

Signature of Principal
with Seal

Note: Kindly send the scanned copy of duly filled appli-
cation form by mail for confirmation of registration.

Email: rbvrrwcp18@gmail.com

ORGANIZING COMMITTEE

Patron : Prof. K. Muthyam Reddy

Hon. Secretary & Correspondent
RBVRR Women's College of Pharmacy

Convener : Prof. M. Sumakanth

Principal,
RBVRR Women's College of Pharmacy

Coordinators

Dr. A.K. Sailaja

Dr. K. Bhavyasri

Associate professor &
HOD

Associate professor &
HOD

Department of Pharma-
ceutics

Department of Pharma-
ceutical Analysis

RBVRRWCP

RBVRRWCP

Who can apply: Faculty members from pharmacy
and other specializations of life sciences.

Number of participants: Limited to 35 participants,
on first come first serve basis.

Registration Fee: Rs 2000/-

Online payment: RBVRR Women's College

of Pharmacy, A/C: 039710011906455,

IFSC Code: ANDB0000397,

Bank: Andhra bank,

Branch : Narayanaguda.

Google Pay: 9848391954

Registration Committee :-9441517420,

9848054391, 8185067523.

NATIONAL LEVEL
FACULTY DEVELOPMENT PROGRAMME
ON

“MODERN TEACHING-LEARNING
TECHNIQUES IN PHARMACEUTICAL
SCIENCES WITH HANDS ON EXPERI-
ENCE”

(27th - 31st JANUARY 2020)



Organized By



**RBVRR WOMEN'S COLLEGE
OF PHARMACY**

3-4-343-Barkatpura, Hyderabad -500027

(Approved by AICTE & PCI, Accredited by NBA

Affiliated to Osmania University)

Sponsored by

NATCO PHARMA INDUSTRY

About College:

RBVRR Women's College of Pharmacy, was established in the year 2006 under Hyderabad Mahila Vidya Sangham to provide education to women students. The college have spacious class rooms, well equipped laboratories with latest equipment, seminar hall, conference room, computer lab and library.

The college is offering following courses

B. Pharmacy-100

M.Pharmacy :

Pharmaceutical chemistry, Pharmaceutical Analysis & Pharmaceutics.

Pharm D-30

Vision : To be a national women pharmacy professional leader in transforming lives through an innovative, rigorous and compassionate approach to Pharma education.

Mission : RBVRRWCP inspires, prepares and empowers girl students to succeed in a changing world apart from regular curriculum

About the Programme:

The teacher plays a vital role in student career as well life. As per current advancement of technology in all the fields , the teacher has to update his/her knowledge to model the student to lead better life. The upgradation programmes have to be conducted as part of providing quality education. The faculty development programme is one of the upgradation program to help the students to understand the concept in the class room. so we are herewith conducting this program by inviting eminent personalities from different fields to motivate and make the teacher thorough with some of the topics which need more knowledge to teach the students

Objective of the Programme:

To be able to implement new techniques in teaching at their respective colleges.
To be able to upgrade practical as well as theory knowledge in latest processes as part of drug development .
To be able to know the status of pharmacy practice in India.

PROGRAMME SCHEDULE

DAY 1 : 27th January 2020

9.30 AM - 10.00 AM	Registration
10.00 AM-10.30 AM	Welcome address and Guest talk
10.30AM– 10.45AM	Tea break
10.45AM -12.45PM	Lecture - 1 Herbal Drug technology-I Dr. K. Sureshababu, Principal Scientist, Centre for Natural Products & Traditional Knowledge CSIR-IICT, Tarnaka, Hyderabad.
12.45AM-1.30PM	Lunch Break
1.30PM-3.00PM	Lecture - 2 Herbal Drug Technology-II Dr. Saxena, Associate professor & HOD Dr. B.R.K.R Government Ayurvedic Medical College Hyderabad.
3.30PM - 4.30PM	Lecture - 3 Women Stress Management Dr. C. Veerender, Psychologist

DAY 2: 28th January 2020

10.30 AM -12.30PM	Lecture - 4 Animal Model for Cardiovascular and Neuro-Pharmacological Studies. Dr. Jerald Mahesh Kumar, Principal Scientist, CCMB, Hyderabad.
12.30PM-2.00PM	Lunch Break
2.00PM– 4.00PM	Lecture - 5 Regulatory Affairs Dr. G. B. Reddy, Professor of law, Osmania University, Hyderabad

DAY 3: 29th January 2020

10.30 AM to 12.30PM	Lecture - 6 How to inspire Teacher Prof. V. Vishwanandhan (Rtd) Department of Commerce Osmania University, Hyderabad
12.30PM– 1.30PM	Lunch Break
1.30PM—4.30PM	Lecture - 7 Hands on Experience in Pharmaceutics & Pharma Analysis.

DAY 4 : 30th January 2020

10.30 AM-12.30PM	Lecture - 8 Modern Teaching–Learning methods Dr. D. Lakshmi, Educational research officer, Vishnu Educational Development and Innovation center
1.00 PM –1.30 PM	Lunch Break
1.30PM-4.30PM	Modern Teaching–Learning

DAY 5 : 31st January 2020

10.30 AM—12.30PM	Lecture - 9 Overview On Pharmacy Practice in India Dr. M. Ramesh, Professor & HOD, Department of Pharmacy Practice, J.S.S Mysore, India
12.30PM-2.00PM	Lunch Break
2.00PM-4.30PM	Lecture - 10 Teacher—Psychology Dr. G.L.K Durga, Professor & Principal (Rtd) AMC College, Hyderabad.
4.30PM-5.00PM	Valedictory & Vote of Thanks

Report

NATCO SPONSORED FDP 2020

DAY 1: 27 January 2020. In the first technical session eminent speaker, Dr. K. Suresh Babu, Principal Scientist, Centre for Natural Products & Traditional Knowledge CSIR-IICT, Hyderabad delivered his lecture on "Herbal Drug Technology – I". He emphasized on the complexity of herbal drug analysis, their application in Ayurvedic/Herbal Industry. Dr. Saxena, Associate professor & HOD, Dr. B.R.K.R Government Ayurvedic Medical College Hyderabad chaired the session on "Herbal Drug Technology – II". He delivered his talk on "Phyto-Pharmacological Screening of Herbal drugs & Recent advances in Herbal Drug Technology and WHO Guidelines For Herbal Drugs". The Last session of the day was by Dr. C. Veerender, Psychologist on "Women and Stress Management". He emphasized on the need for gratitude towards life and explained in detail the strategies to manage stress effectively. NATCO SPONSORED FDP PROGRAM Five days faculty development programme was organized by RBVRR Women's College of Pharmacy, which was sponsored by Natco Pharma Ltd. The theme of the FDP was "Modern Teaching – Learning Techniques in Pharmaceutical Sciences with Hands on Experience".

DAY 2: 28th January 2020. The technical session of the day was handled by Dr. Jerald Mahesh Kumar, Principal Scientist, CCMB, Hyderabad on "Animal Model for Cardiovascular and Neuro-Pharmacological Studies". He explained about the Applications of 3R's Principles relating to Animal Research in Cardiovascular and Neuro-Pharmacological Studies. The session was followed with a talk by Dr. G.B.Reddy, Professor of Law, Osmania University, Hyderabad on "Regulatory Affairs". The eminent speaker stressed on history of IPR along with the challenge to IPR protection in modern times. SUDITHI-2K20 RBVRR WOMEN'S COLLEGE OF PHARMACY (APPROVED BY PCI AND AICTE, AFFILIATED TO OSMANIA UNIVERSITY, ACCREDITED BY NBA)

DAY 3: 29th January 2020. The session began with a motivational talk by Prof. V. Vishwanandhan (Rtd) Department of Commerce, Osmania University, Hyderabad on the topic "How to Inspire Teacher". The next session after post lunch was followed by speaker Dr. Vasudev Rudraraju Deputy General Manager, AR & D NATCO Research, NATCO Pharma Ltd. on "Overview and Application of Solid State, Solution State and 2D NMR". He explained dramatic simplification of the 2D nuclear Overhauser effect spectrum and applications of heteronuclear couplings to conformational analysis of oligonucleotides.

DAY 4 : 30st January 2020. Dr. D. Lakshmi, Educational Research Officer, Vishnu Educational Development and Innovation Center, Hyderabad emphasized on "Modern Teaching–Learning Methods". She explained about several online tools and enlightened the participants followed by Practical Session.

DAY 5: 31st January 2020. Last day the talk was delivered by Dr. Vijaya Kumar, Associate Professor & HOD, Department of Pharmacy Practice, SRM University, Chennai, India on "Overview On Pharmacy Practice in India". He emphasized on requirements and role of pharmacist in good pharmacy practice along with drug information services. The last session of FDP was carried out by Dr. G.L.K Durga, Professor & Principal (Rtd) AMC College, Hyderabad on the topic "Teacher - Psychology". She highlighted

various theories of human development to understand individual learning styles and inform the instructional process.

NATCO SPONSORED FDP PROGRAM

Five days faculty development programme was organized by RBVRR Women's College of Pharmacy, which was sponsored by Natco Pharma Ltd. The theme of the FDP was "Modern Teaching - Learning Techniques in Pharmaceutical Sciences with Hands on Experience".

DAY 1: 27 January 2020.

In the first technical session eminent speaker, Dr. K. Suresh Babu, Principal Scientist, Centre for Natural Products & Traditional Knowledge CSIR-IICT, Hyderabad delivered his lecture on "Herbal Drug Technology - I". He emphasized on the complexity of herbal drug analysis, their application in Ayurvedic/Herbal Industry. Dr. Saxena, Associate professor & HOD, Dr. B.R.K.R Government Ayurvedic Medical College Hyderabad chaired the session on "Herbal Drug Technology - II". He delivered his talk on "Phyto-Pharmacological Screening of Herbal drugs & Recent advances in Herbal Drug Technology and WHO Guidelines For Herbal Drugs".

The Last session of the day was by Dr. C. Veerender, Psychologist on "Women and Stress Management". He emphasized on the need for gratitude towards life and explained in detail the strategies to manage stress effectively.



DAY 2: 28th January 2020.

The technical session of the day was handled by Dr. Jerald Mahesh Kumar, Principal Scientist, CCMB, Hyderabad on "Animal Model for Cardiovascular and Neuro-Pharmacological Studies". He explained about the Applications of 3R's Principles relating to Animal Research in Cardiovascular and Neuro-Pharmacological Studies.

The session was followed with a talk by Dr. G.B.Reddy, Professor of Law, Osmania University, Hyderabad on "Regulatory Affairs". The eminent speaker stressed on history of IPR along with the challenge to IPR protection in modern times.

DAY 3: 29th January 2020.

The session began with a motivational talk by Prof. V. Vishwanandhan (Rtd) Department of Commerce, Osmania University, Hyderabad on the topic "How to Inspire Teacher".

The next session after post lunch was followed by speaker Dr. Vasudev Rudraraju Deputy General Manager, AR & D NATCO Research, NATCO Pharma Ltd. on "Overview and Application of Solid State, Solution State and 2D NMR".

He explained dramatic simplification of the 2D nuclear Overhauser effect spectrum and applications of heteronuclear couplings to conformational analysis of oligonucleotides



DAY 4 : 30st January 2020.

Dr. D. Lakshmi, Educational Research Officer, Vishnu Educational Development and Innovation Center, Hyderabad emphasized on "Modern Teaching-Learning Methods". She explained about several online tools and enlightened the participants followed by Practical Session.



DAY 5: 31st January 2020.

Last day the talk was delivered by Dr.Vijaya Kumar, Associate Professor & HOD, Department of Pharmacy Practice, SRM University, Chennai, India on "Overview On Pharmacy Practice in India". He emphasized on requirements and role of pharmacist in good pharmacy practice along with drug information services. The last session of FDP was carried out by Dr. G.L.K Durga, Professor & Principal (Rtd) AMC College, Hyderabad on the topic "Teacher - Psychology". She highlighted various theories of human development to understand individual learning styles and inform the instructional process.