

Efficacy Report of LPE 1% SL

Title of the Experiment	:	Evaluation of LPE 1% SL on the colour development of Grapes
Test Product	:	LPE 1% SL
Crop	:	Grapes
Variety	:	Nanasaheb Purple
Location of the Experiment	:	Pimpalgaon Dabhadi, Malegaon Dist: Nasik, Maharashtra.
Name of the Farmer	:	Mr. Nitesh Ahire
Date of Pruning	:	24/09/2014
Crop age	:	2 years
Date of Application	:	16/12/2014
Crop Stage at Application	:	Veraison Stage
Date(s) of Observations	:	0 th , 6 th , 12 th , 18 th and 24 th Days after Applications (DAA)

Treatment Details:

Treat No	Treatments	Dose (ml/L)
T1	LPE 1% SL	1.0
T2	LPE 1% SL	2.0
T4	LPE 1% SL	3.0
T3	Control	----

General Information:

The said variety of Grape (Nanasaheb Purple) is a coloured variety. This variety starts colour development at Veraison stage. At earlier development stages the berry remains Green which turns to Purple and finally Blackish Purple.

Method of Experiment:

Two vines for each treatment were selected randomly. Among this two vines 10 bunch of same colour breaker stage were tagged to record observations. Applications of treatments were given by Hand Sprayer to vines, specially targeting all bunches on vine. The application is given when 2-3 berries of bunch were at colour breaker stage. The observations were recorded by giving visual ratings to bunch as mentioned in below chart.

Table No. 1: Visual rating chart

Ratings: (0 to 5)	% Green Colour	% Purple Colour	Colour % in a bunch
0	100	0	
1	80	20	
2	60	40	
3	40	60	
4	20	80	
5	0	100	

Results and Discussion:

The treatment, LPE 1% SL @ 3 ml/L showed highest average rating for colour development, followed by LPE 1% SL @ 2 ml/L and LPE 1% SL @ 1 ml/L. The lowest average of colour development was observed in Untreated Control in all days of observations. All three treatments of LPE 1% SL (1 ml/L, 2 ml/L and 3 ml/L) had shown significant colour development of bunches from Green to Blackish Purple than Untreated control.

Table2: Average of bunch ratings for colour development

Tr. No	Treatment Details	Dose (ml/L)	*Average of bunch ratings				
			Pre-count	6 DAA	12 DAA	18 DAA	24 DAA
T1	LPE 1% SL	1	0	1.50	2.70	4.00	4.50
T2	LPE 1% SL	2	0	2.30	3.10	4.30	4.70
T4	LPE 1% SL	3	0	2.40	3.20	4.60	4.80
T3	UTC	...	0	0.90	1.50	2.60	3.40

* Average of ten tagged bunches

Photos :**LPE 1% SL @1 ml/L**

0 DAA

12 DAA

18 DAA

24 DAA

LPE 1% SL @2 ml/L



0 DAA

12 DAA

18 DAA

24 DAA

LPE 1% SL @3 ml/L



0 DAA

12 DAA

18 DAA

24 DAA

Untreated Control



0 DAA

12 DAA

18 DAA

24 DAA

LPE 1% SL @ 1 ml/L



Untreated Control



Conclusion:

The LPE 1% SL has a significant role in colour development of Grapes.