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	RAW MATERIAL SPECIFICATION		Page	1 of 2
NOVO EXCIPIENTS	Quality Control Department		No.	
Name of Raw Material	FD&C BLUE 2			
Specification No.	RM/SPEC/IH/096-01 Supersedes No.:		NA	
Reference	IH Effective Date		20/12/	2023
Ref. Annexure No.	A/SOP/QC/030/02	Review Month	Nov's	2028

## **GENERAL INFORMATION**

Pharmacopeial reference

: In House

Special requirement of

: Material should be packed in LDPE bag in HDPE/ Fiber drum.

pack

Approved vendor

: Please refer current approved vendor list.

Handling hazards

: Refer Material Safety Data Sheet

Quantity to be sampled

Analysis Sample Control sample
30 g 60 g

Retest Period

: 12 Months

Storage

: Store in an ambient temperature and dry place.

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	RAW MATERIAL SPECIFICATION	Page	2 of 2	
NOVO EXCIPIENTS	Quality Control Department	No.		
Name of Raw Material	FD&C BLUE 2			
Specification No.	RM/SPEC/IH/096-01			

Sr. No.	TEST	SPECIFICATIONS	REFERENCE	
01.	Description #	Dark Blue powder	In House	
02.	Solubility #	Soluble in water	In House	
03.	Water insoluble matter	NMT 0.2 %	In House	
04.	Volatile matter at 135° C	NMT 15.0 %	In House	
05.	Pure Dye Content #	85.0 % - 100.0 %	In House	
# : Re	# : Re-evaluation tests			

## **REVISION HISTORY FOR SPECIFICATION:**

Revision No.	Revision Description	Effective Date
01	New Document prepared as per Approved Change control CC/PD/23/019	20/12/2023

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NOVO EXCIPIENTS	RAW MATERIAL  STANDARD TEST PROCEDURE (STP)  Quality Control Department		Page No.	1 of 3
Name of Material	FD&C BLUE 2			
STP No.	RM/STP/IH/096-01			
Reference	IH	Supersedes No.	01	
Ref. SPEC No.	RM/SPEC/IH/096-01	Effective Date	20/12/20	23
Ref. Annexure No.	A/SOP/QC/030/06	Review Month	har 2028	7

01.	Description: Instrument: Balance
	Take about 2 to 3 g of test sample and transferred into a clean and dry petri dish. Spread it
	uniformly by spatula; observe its color.
	Specification: Dark blue powder.
02.	Solubility: Instrument: Balance
	Soluble in water:
	Weigh about 1.0 g of test sample and transfer into a clean and dry test tube, add 30 ml of
	water. Shake well and observe the solubility.
	Specification: Soluble in water.
03.	Water Insoluble Matter: Instrument: Balance, Oven
	Weigh a glass sintered glass crucible, Put 2 g of test sample in to 600 ml beaker, dissolve
	in hot temperature is 80° C - 90° C deionized water and allow the solution to cool room
	temperature. Filter the solution through the sintered crucible, wash with deionized water
	until the washings are colorless.
	Dry the crucible at 135° C for 3 hours, allow to cool in a desiccator for 30 minutes and
	weigh.
	Calculate the % Water Insoluble Matter as per following formula,
	$(M_2-M_1)$
	% Water Insoluble Matter = X 100
	M

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NOVO EXCIPIENTS	RAW MATERIAL STANDARD TEST PROCEDURE (STP) Quality Control Department	Page No.	2 of 3
Name of Material	FD&C BLUE 2		~
STP No.	RM/STP/IH/096-01		

	Where,
	$M_1$ = Empty weight of sintered glass crucible.
	$M_2$ = Weight of sintered glass crucible after drying
	M = Weight of Sample
	Specifications: Not more than 0.2 %
04.	Volatile Matter at 135° C: Instrument: Balance, Oven
	Take 1.5 g of sample in a glass stoppered weighing bottle.
	Heat for 2 hours in an oven at 135° C $\pm$ 2 ° C, cool in a desiccator and weigh until
	constant weight.
	Calculate the Volatile matter as per following formula,
	(W2-W4)
	Volatile Matter at 135° C = X 100
	(W2-W1)
	Where,
	W1 = Weight of the empty weighing bottle (g)
	W2 = Weight of the weighing bottle with test sample before drying (g)
	W3 = Weight of the weighing bottle with residue after drying (g)
	W4 = Weight of the weighing bottle with residue after drying (g) (Constant weight)
	Specifications: NMT 15.0 %
05.	Pure Dye Content: Instrument: Balance, UV spectrophotometer
	Ammonium Acetate: Weigh the 3.3915 g ammonium acetate (Molecular weight is 77.08
	gm/mole) in 1 liter volumetric flask add deionized water sonicate to dissolve completely.
	Make upto the mark with deionized water and shake well.
	Procedure:
	Weigh the dry sample accurately 90-110 mg and transfer into a 1 liter volumetric flask
	and dissolve in deionized water sonicate to dissolve completely and dilute upto mark with

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deionized water. Pipette out 10 ml of this solution and dilute to 100 ml with 0.044  $\ensuremath{N}$ 

ammonium acetate solution as a Buffer to make a final concentration for  $0.9-1.1\ mg/100$ 



NOVO EXCIPIENTS	RAW MATERIAL STANDARD TEST PROCEDURE (STP) Quality Control Department	Page No.	3 of 3
Name of Material	FD&C BLUE 2		
STP No.	RM/STP/IH/096-01		

ml. Determine the maximum absorbance (ABS) of this solution with distilled water as blank, in a glass cell with 10 mm light path by scanning visible range 400-750 nm Or photometric at  $610 \pm 4$  nm. E(1%/1cm) = 480, a = absorptivity 0.0478

A x 1L x 100 mL x 100

% Pure Dye content = -----

axbxWt.x10mL

Where,

a = absorptivity (L/(mg.cm))

b = cell path length (cm)

A = absorbance of diluted solution at  $\lambda$  max corrected for absorbance of blank

1L = volume of concentrated solution

100 ml = volume of diluted solution

10 ml = volume of aliquot of concentrated solution

Wt = weight of sample (mg)

100 = factor for conversion to percent

Specifications: 85.0 % - 100.0 %

## REVISION HISTORY FOR STANDARD TEST PROCEDURE:

Revision No.	Revision Description	Effective Date
01	New Document prepared as per Approved Change control CC/QC/23/019	20/12/2023

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