



ARBRO™
PHARMACEUTICALS PRIVATE LIMITED
Analytical Division



Approval No.: W 26(B)LAB

ISO 9001 : 2015 Certified & Govt. Approved Test House
4/5, Kirti Nagar Industrial Area, New Delhi - 110015 (INDIA)
Phone : +91 11-45754575, Email : arbrolab@arbropharma.com, Website : www.testing-lab.com

CERTIFICATE OF ANALYSIS

Report No. : A202308220137

Sample : METHYLENE BLUE TRIHYDRATE CAS 7220-79-3 USP
Mfd. By : NS
Supplied By : 20/07/2023
Submitted By : QUANTUM INNOVATION LABS
Address : 25 A Crescent Dr. #105 Pleasant Hill CA 94523 (USA)

Recd. On : 22/08/2023
Mfg lic. No. : NS
Ref. No. : NS

Batch No	Mfg. Date	Expiry Date	Batch Size	Sample Quantity	
E23MBZF26	26/05/2023	25/05/2025	500 Kg	100 gm	
Sample ID	202308220137	Date of start of analysis	26/08/2023	Date of completion of analysis	03/09/2023
Sample not drawn by laboratory.					

Reference to protocol : USP-2023
Description : Green powder

<Parameters>	<Results>	<Lower limit>	<Upper limit>	<Method>
Residue on ignition	: 0.040 % w/w	-	0.150 % w/w	USP
Loss on drying	: 9.79 % w/w	8.0 % w/w	22.0 % w/w	USP
Assay of C16H18ON3S.(by HPLC),on dried basis	: 99.30 % w/w	97.0 % w/w	103.0 % w/w	USP

Remarks :- In the opinion of the undersigned the sample referred to above conforms with respect to the above parameters only.

Report : CUSTOMER ASKED FOR THE ABOVE TESTS ONLY.

***Terms & Conditions:**

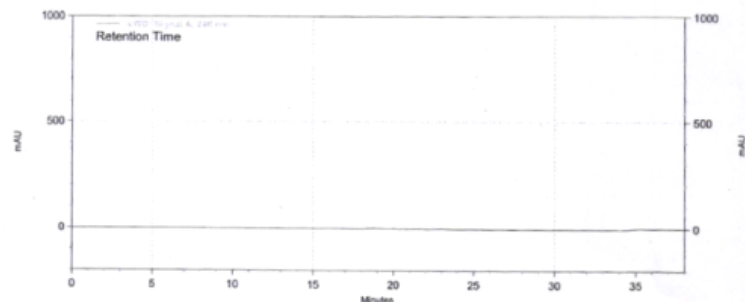
- (1) Total Liability of this laboratory is limited to the invoice amount.
- (2) The results listed refer only to the tested sample and applicable parameter. Endorsement of products is neither inferred nor implied.
- (3) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of Law and should not be used in any advertising media without our special Permission on writing.

Person In Charge
Siipi Kalita
Person In Charge

ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)



Sample ID: Blank
Inj. Vol: 5
Vial No: 11
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_001.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 12:05:24 PM
Print Time: 03-Sep-23 2:37:55 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm
Results

Pk #	Name	Retention Time	Area	Area %	Asymmetry
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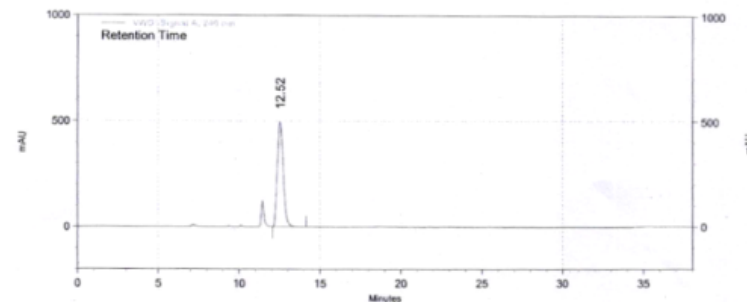
SATENDRA
03-09-2023

03-09-23

ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)



Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep1.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 12:44:50 PM
Print Time: 03-Sep-23 2:38:01 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm
Results

Pk #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.52	213562003	100.00	1.22

Totals			213562003	100.00	
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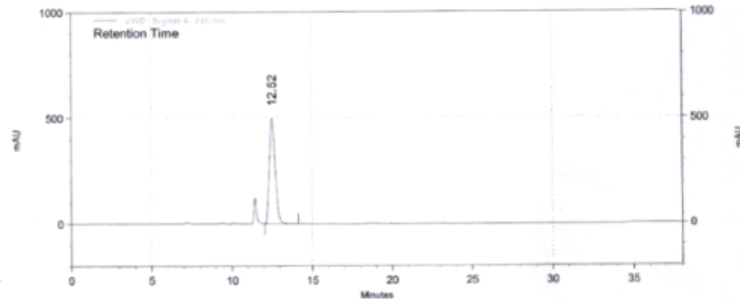
SATENDRA
03-09-2023

03-09-23



ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)

Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep2.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 1:24:19 PM
Print Time: 03-Sep-23 2:38:09 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm
Results

Pk #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.52	214317623	100.00	1.22
Totals			214317623	100.00	

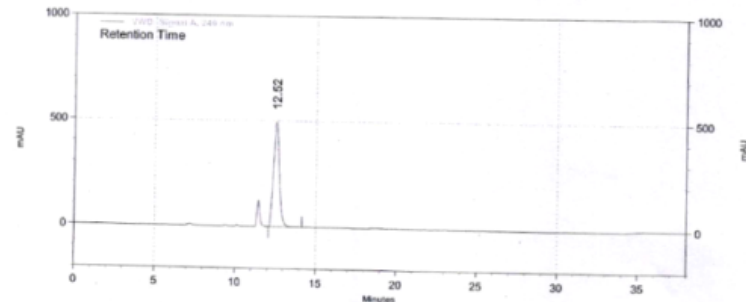
SATENDRA
03-09-2023

03-09-23



ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)

Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep3.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 2:03:50 PM
Print Time: 03-Sep-23 2:38:13 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm
Results

Pk #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.52	214530789	100.00	1.21
Totals			214530789	100.00	

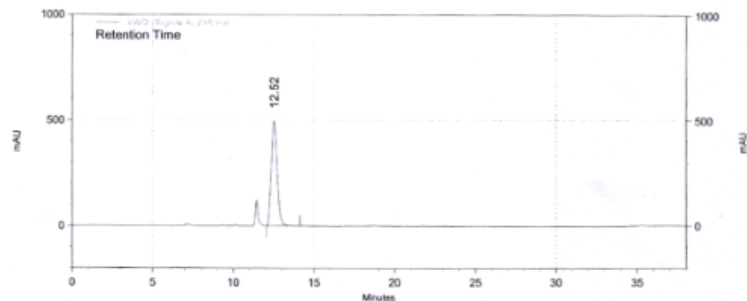
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03-09-23



ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)

Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep1.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 12:44:50 PM
Print Time: 03-Sep-23 2:38:01 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm
Results

PK #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.52	213562003	100.00	1.22
Totals					
			213562003	100.00	

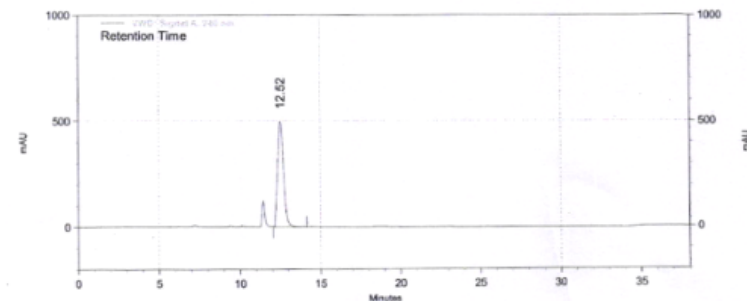
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03-09-23



ARBRO PHARMACEUTICALS PVT LTD
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Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep2.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 1:24:19 PM
Print Time: 03-Sep-23 2:38:09 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm
Results

PK #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.52	214317623	100.00	1.22
Totals					
			214317623	100.00	

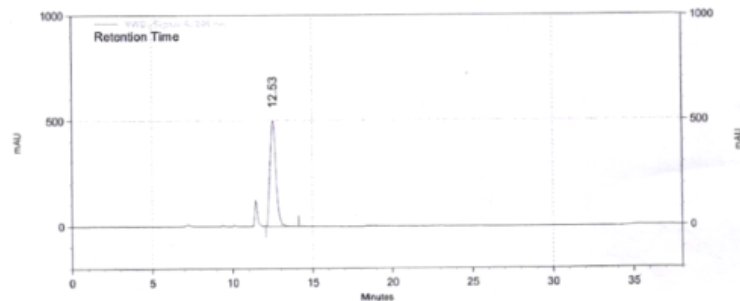
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(Analytical Division)



Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep4.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 2:43:15 PM
Print Time: 03-Sep-23 2:38:17 PM
Instrument ID: APL/INS/197



VWD: Signal A,
246 nm Results

Pk #	Name	Retention Time	Area	Area %
1	Methylene Blue	12.53	214717587	100.00
Totals			214717587	100.00

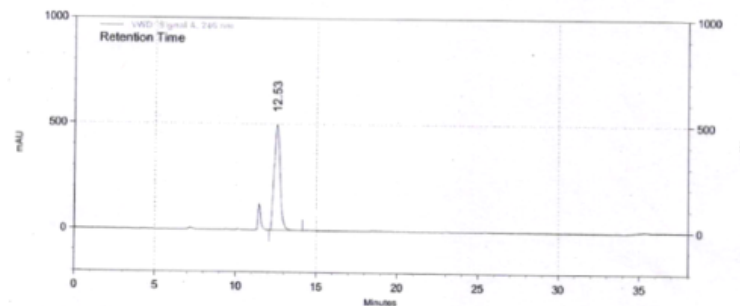
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03-09-23

ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)



Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep5.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 3:22:41 PM
Print Time: 03-Sep-23 2:38:20 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm
Results

Pk #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.53	214899005	100.00	1.22
Totals			214899005	100.00	

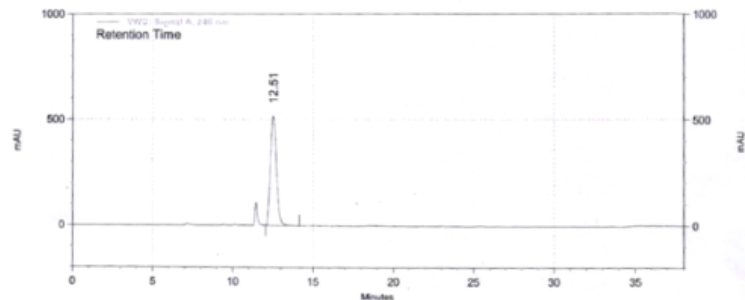
SATENDRA
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03-09-23

**ARBRO PHARMACEUTICALS PVT LTD**

(Analytical Division)

Sample ID: Methylene Blue Trihydrate CAs 7220-79-3 USP S.ID- 202308220137
Inj. Vol: 5
Vial No: 13
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_003-Rep1.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 4:02:09 PM
Print Time: 03-Sep-23 2:38:42 PM
Instrument ID: APL/INS/197

VWD: Signal A,
246 nm Results

Pk #	Name	Retention Time	Area	Area %
1	Methylene Blue	12.51	228360794	100.00

Totals			228360794	100.00
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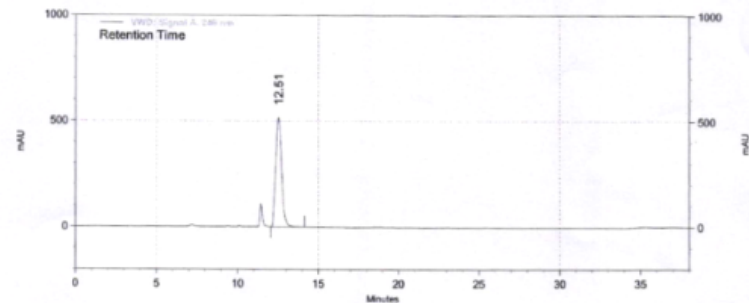
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03-09-23

**ARBRO PHARMACEUTICALS PVT LTD**

(Analytical Division)

Sample ID: Methylene Blue Trihydrate CAs 7220-79-3 USP S.ID- 202308220137
Inj. Vol: 5
Vial No: 13
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_003-Rep2.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 4:41:35 PM
Print Time: 03-Sep-23 2:38:46 PM
Instrument ID: APL/INS/197

VWD: Signal A,
246 nm Results

Pk #	Name	Retention Time	Area	Area %
1	Methylene Blue	12.51	228040920	100.00

Totals			228040920	100.00
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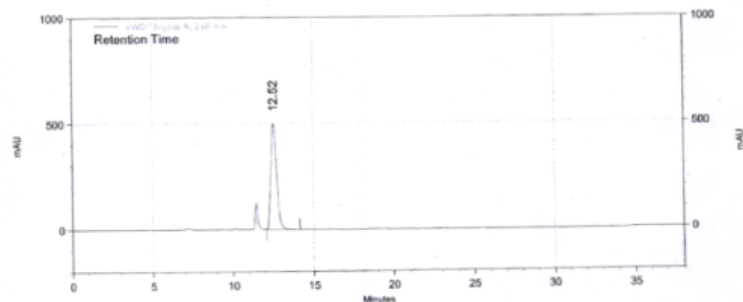
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03-09-2023

03-09-23

ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)



Sample ID: Std Methylene Blue_Bkt
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_004.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 5:21:00 PM
Print Time: 03-Sep-23 2:38:31 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm

Results

PK #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.52	215679002	100.00	1.24
Totals			215679002	100.00	

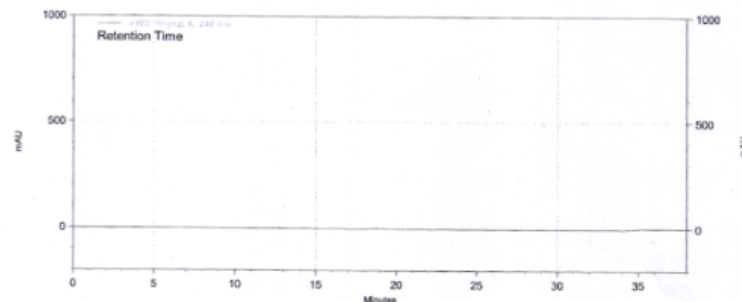
SATENDRA
03-09-2023

03-09-23

ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)



Sample ID: Blank
Inj. Vol: 5
Vial No: 11
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_001.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 12:05:24 PM
Print Time: 03-Sep-23 2:37:55 PM
Instrument ID: APL/INS/197



VWD: Signal
A, 246 nm

Results

PK #	Name	Retention Time	Area	Area %	Asymmetry
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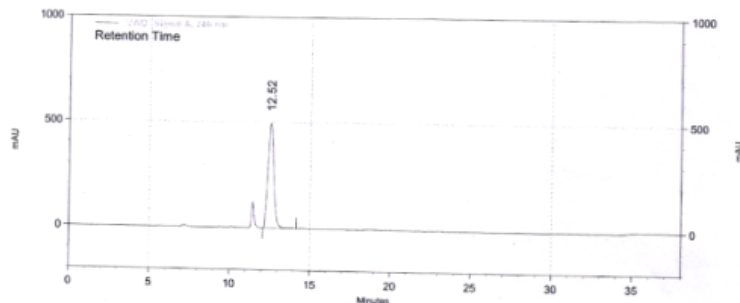
SATENDRA
03-09-2023

03-09-23



ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)

Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep3.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 2:03:50 PM
Print Time: 03-Sep-23 2:38:13 PM
Instrument ID: APL/INS/197



VWD: Signal A,
246 nm
Results

Pk #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.52	214530789	100.00	1.21
Totals			214530789	100.00	

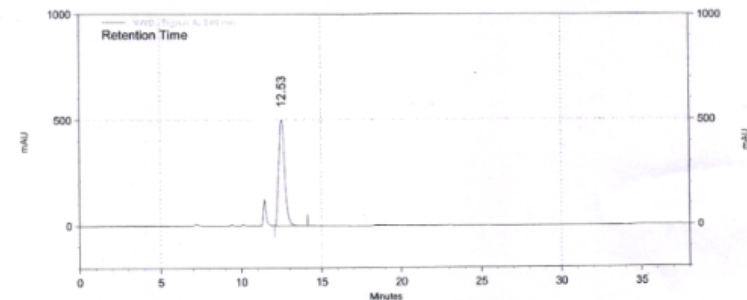
SATENDRA
03-09-2023

APL 03-09-23



ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)

Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep4.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 2:43:15 PM
Print Time: 03-Sep-23 2:38:17 PM
Instrument ID: APL/INS/197



VWD: Signal A,
246 nm
Results

Pk #	Name	Retention Time	Area	Area %
1	Methylene Blue	12.53	214717587	100.00
Totals			214717587	100.00

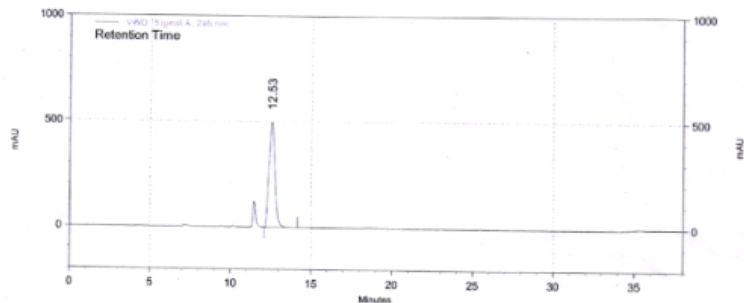
SATENDRA
03-09-2023

APL 03-09-23

ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)



Sample ID: Std Methylene Blue
Inj. Vol: 5
Vial No: 12
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_002-Rep5.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 3:22:41 PM
Print Time: 03-Sep-23 2:38:20 PM
Instrument ID: APL/INS/197



VWD: Signal A, 246 nm
Results

Pk #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.53	214899005	100.00	1.22
Totals			214899005	100.00	

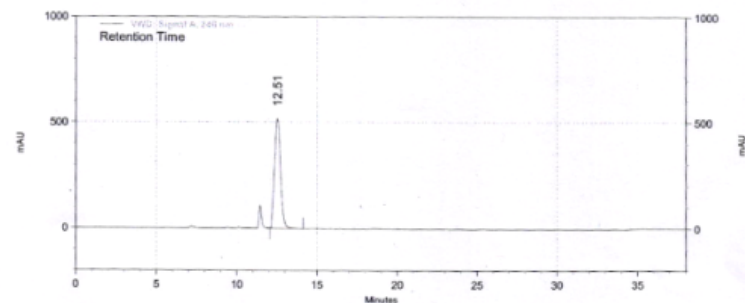
SATENDRA
03-09-2023

21/09/23

ARBRO PHARMACEUTICALS PVT LTD
(Analytical Division)



Sample ID: Methylene Blue Trihydrate CAS 7220-79-3 USP S.ID- 202308220137
Inj. Vol: 5
Vial No: 13
Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_003-Rep1.dat
Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
Acquired: 02-Sep-23 4:02:09 PM
Print Time: 03-Sep-23 2:38:42 PM
Instrument ID: APL/INS/197



VWD: Signal A, 246 nm
Results

Pk #	Name	Retention Time	Area	Area %
1	Methylene Blue	12.51	228360794	100.00
Totals			228360794	100.00

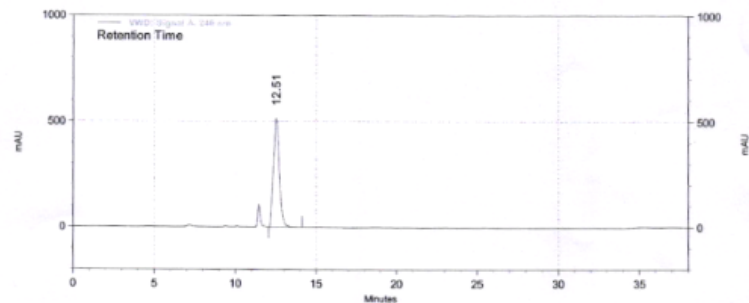
SATENDRA
03-09-2023

21/09/23

ARBRO PHARMACEUTICALS PVT LTD

(Analytical Division)

Sample ID: Methylene Blue Trihydrate CAs 7220-79-3 USP S.ID- 202308220137
 Inj. Vol: 5
 Vial No: 13
 Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_003-Rep2.dat
 Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
 Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
 Acquired: 02-Sep-23 4:41:35 PM
 Print Time: 03-Sep-23 2:38:46 PM
 Instrument ID: APL/INS/197



VWD: Signal A,
246 nm Results

PK #	Name	Retention Time	Area	Area %
1	Methylene Blue	12.51	228040920	100.00
Totals			228040920	100.00

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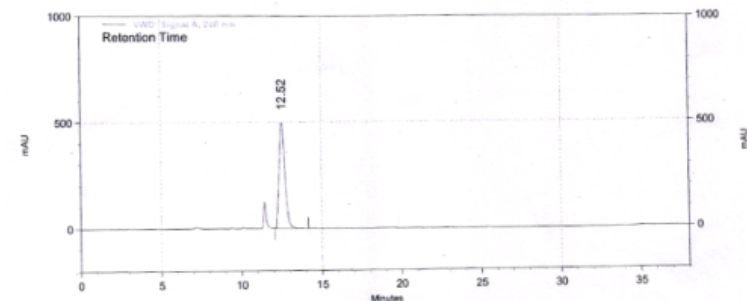
AM 03-09-23



ARBRO PHARMACEUTICALS PVT LTD

(Analytical Division)

Sample ID: Std Methylene Blue_Bkt
 Inj. Vol: 5
 Vial No: 12
 Data File: E:\Project\Year 2023\September\Methylene Blue\Data\02 September 2023_004.dat
 Method: E:\Project\Year 2023\September\Methylene Blue\Assay.met
 Sequence: E:\Project\Year 2023\September\Methylene Blue\Sequence\02092023.seq
 Acquired: 02-Sep-23 5:21:00 PM
 Print Time: 03-Sep-23 2:38:31 PM
 Instrument ID: APL/INS/197



VWD: Signal A,
246 nm Results

PK #	Name	Retention Time	Area	Area %	Asymmetry
1	Methylene Blue	12.52	215679002	100.00	1.24
Totals			215679002	100.00	

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03-09-2023

AM 03-09-23

