



उत्पाद मैनुअल
4,4'-Diaminostilbene-2,2'-Disulphonic Acid
आई एस 4265:1975 के अनुसार

PRODUCT MANUAL FOR
4,4'-Diaminostilbene-2,2'-Disulphonic Acid
ACCORDING TO IS 4265:1975

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज़ का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification.

1.	मानक संख्या IS No.	:	IS 4265:1975
	शीर्षक Title	:	4,4'-Diaminostilbene-2,2'-Disulphonic Acid
	संशोधनों की संख्या No. of amendments	:	Nil
2.	नमूना दिशानिर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	Nil
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Nil
c)	नमूने का परिमाण Sample Quantity	:	500 gm
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test Request	:	i) Name of the product ii) Form/Variety: Free acid/ Disodium salt Note: Apart from the above, any other requirements/parameters may also be declared as per the standard, as applicable.

3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – A
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – B
5.	एक दिन में संभावित परीक्षण Possible tests in a day	:	All tests
6.	लाइसेंस का दायरा /Scope of the Licence:		
“License is granted to use Standard Mark as per IS 4265:1975 with the following scope:			
Name of the product		4,4'-Diaminostilbene-2,2'-Disulphonic Acid	
Form/Variety		Disodium salt / Free acid	

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN,9, BAHADUR SHAH ZAFAR MARG,
NEW DELHI-110002

ANNEX -A

**LIST OF TEST EQUIPMENTS
(INDICATIVE LIST, FOR GUIDANCE ONLY)**

Sl. No	Tests used in with clause reference		Test equipment/Chemicals
	Clause no.	Parameter	
1.	2.2 Table 1 Sl.No i)	Purity, as percent Nitrite Value a) As free acid (molecular mass 370.4) Or b) As disodium salt (molecular mass 414.4)	Analytical Balance, Wide-mouthed bottle with stopper, Hot air oven, Iodine flask, Magnetic stirrer, Burette Beaker, Volumetric flask, Pipette, Measuring cylinder Thermometer, Ice bath, Sonicater Chemicals: Ammonium Hydroxide Solution, Sodium Nitrite, 4-Nitroaniline Solution, Starch-Iodine Test Papers, Concentrated HCL, Distilled Water
2.	2.2 Table 1 Sl.No ii)	Insolubles in ammonia solution percent by mass	Beakers, Measuring cylinders Sintered or Gooch crucible, Desiccator, Analytical Balance, Vacuum pump, Filtration flask, PH test papers, Chemicals: Ammonium Hydroxide Solution
3.	2.2 Table 1 Sl.No iii)	4,4-Diaminodibenzyl 2,2-disulphonic acid percent by mass (on dry basis)	Micropipette (5 micro litre capacity), TLC (Thin Layer Chromatography) chamber, Chromatographic sprayer, Coated TLC Plates (MN Cellulose 300 G or Equivalent powder 20×20 cm,), Analytical Balance, Beakers, Test tubes, Amber coloured weighing bottle, beakers, Air conditioner, Digital humidity and temperature Indicator Chemicals: 4,4 diamino di benzyl 2, 2 di sulphonic acid Pure – reference sample Ammonium Hydroxide Solution, Acetone, Sodium Nitrite, Concentrated HCL, Distilled Water, H-Salt, Sodium Chloride 20%

ANNEX C
Scheme of Inspection and Testing

1. QUALITY ASSURANCE PLAN

1.1 It is expected that manufacturers (licensees/applicants) will implement a Quality Control Assurance Plan i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Control system defining the control unit (i.e. lot/batch etc.) and the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and submit the same to BIS Branch Office for information. The manufacturer shall comply with the same and maintain test records in accordance with para 2.5.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

1.3.1 For the guidance of manufacturers, the recommended definition of control unit is: *4,4'-Diaminostilbene-2,2'-Disulphonic Acid manufactured in a day under similar process condition from the same consignment of raw materials* shall constitute a control unit.

1.3.2 As mentioned above, recommended levels of control are given in **Table 1 for guidance only**.

1.3.3 The tests as indicated in Table 1 and at the levels of control in column 3 of Table 1 or the Quality Assurance Plan as submitted by the manufacturer to BIS may be carried out on the whole production of the factory which is covered by this plan and records maintained in accordance with para 2.5.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING- It is expected that manufacturers (licensees/applicants) will establish a suitably equipped and staffed in house laboratory (In house testing facility) for testing at least those parameters of the Indian Standard which require routine testing for ensuring quality of the product. This includes in-process controls as may be defined and put in place by the manufacturer and testing parameters/requirements which can only be performed in the factory.

2.1 For the guidance of manufacturers, Table 1 giving the recommended levels of control is given below. Column 2 of Table 1 indicates where test equipment is required in house i.e “R” or whether it can be subcontracted as “S”. Subcontracting is permitted to BIS recognized/empaneled laboratory or any other laboratory having valid accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

2.2 For MSME manufacturers, the requirement of maintaining a laboratory/in-house testing facility is optional.

2.2.1 MSME manufacturers may utilize common cluster based facilities as per guidelines for the utilization of cluster based test facilities by MSMEs or the provisions of Sharing of testing facilities or get testing

done from BIS recognized/empaneled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.3 Large Scale manufacturers (including foreign manufacturers) shall maintain an in-house laboratory, which shall be suitably equipped (as given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the method given in the specification. They shall also implement a calibration plan for the test equipment.

2.3.1 Alternatively, in lieu of an in-house laboratory, these manufacturers can also utilize the provisions of Sharing of testing facilities as per the Annexure-X (Relaxation in test facilities) of the guidelines for Grant of Licence available on BIS website www.bis.gov.in. (Under Conformity Assessment>Product Certification Process)

2.4 TEST RECORDS- The manufacturers maintaining an in-house laboratory or utilizing common cluster based facilities or shared test facilities shall maintain test records for the tests carried out to establish conformity. For the tests being subcontracted to BIS recognized/empaneled laboratory or any other laboratory having valid accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

3. PACKING AND MARKING - The Standard Mark as given in the Schedule of the licence shall be marked legibly and indelibly on the packaging of 4,4'-Diaminostilbene-2,2'-Disulphonic Acid provided always that the product so marked conforms to each requirement of the specification.

3.1 Marking on the packaging of 4,4'-Diaminostilbene-2,2'-Disulphonic Acid shall be done as per Cl. 3 of IS 4265:1975.

3.2 If material is supplied in tank cars, tank trucks, container ships etc. the Standard Mark as given in Schedule of the licence and Licence Number (i.e. CM/L) shall be incorporated on a test certificate to be provided along with each tank car/tank truck/container ship as per the format at Appendix-1 enclosed, provided always that the product thus marked conforms to all the requirement of the specification. Packing shall be done as per provisions of Indian Standard and the marking details as per Cl 3.2 of IS 4265: 1975 shall also be indicated on the test certificate.

3.3 Additional Marking requirements: The following additional requirement shall also be marked on the packaging of the 4,4'-Diaminostilbene-2,2'-Disulphonic Acid:

a) “For BIS certification details please visit www.bis.gov.in”

3.4 All the production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark.

4. REJECTION - Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act,2016.

TABLE-1

(1)				(2)	(3)		
Test Details				Test Equipment requirement R: Required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
2.1	Description	2.1		R	Firm to have adequate in-process controls to check compliance of this parameter as given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
2.2 Table 1 A-2	Purity	2.2 Table 1	A-2	R	One	Each Control Unit	
2.2 Table 1 A-3	Insolubles in ammonia solution percent by mass	2.2 Table 1	A-3	R	One	Each Control Unit	
2.2 Table 1 A-4	4,4-Diaminodibenzyl 2,2-disulphonic acid percent by mass (on dry basis)	2.2 Table 1	A-4	R	One	Each Control Unit	

Appendix-1
TEST CERTIFICATE
XYZ COMPANY (REGISTERED OFFICE ADDRESS AND WORKS ADDRESS)

TEST CERTIFICATE FOR 4,4'-Diaminostilbene-2,2'-Disulphonic Acid

TEST CERTIFICATE NO. _____ DATED _____

SUPPLIED TO M/s _____ (Name and Address of Consignee)

It is certified that the material described below fully conforms to IS 4265:1975.

The properties of the product, as tested in accordance with the Scheme of Inspection and Testing contained in the BIS Certification Marks Licence No. CM/L _____ are as indicated below against each order no. etc.

(PLEASE REFER TO IS 4265:1975 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

TEST RESULTS

Order no and date	Name of the material	Requirement	Observed Value	Control Unit/Batch Number	Month and Year of Packaging	Quantity	Remarks
		Description					
		Purity					
		Insolubles in ammonia solution percent by mass					
		4,4-Diaminodibenzyl 2,2-disulphonic acid percent by mass (on dry basis)					

The material supplied conforms to specified requirements of IS 4265:1975.

(Signature)
For XYZ Company

MATERIAL SUPPLIED BY
Name and Address of manufacturer:
Recognized Trade Mark if any:

“For details of BIS certification please visit www.bis.gov.in”