



उत्पाद मानुअल
TEBUCONAZOLE, TECHNICAL - SPECIFICATION
IS 15165: 2002 के अनुसार

PRODUCT MANUAL FOR
TEBUCONAZOLE, TECHNICAL - SPECIFICATION
ACCORDING TO IS 15165: 2002

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की योजना- I के तहत प्रमाणन के संचालन में अभ्यास और पारदर्शिता के संचालन में पारदर्शिता सुनिश्चित करने 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 लाइसेंस/प्रमाणपत्र 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 coherence 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 licence/certificate.

1.	उत्पाद Product	:	IS 15165: 2002
	शीर्षक Title	:	TEBUCONAZOLE, TECHNICAL — SPECIFICATION
	संशोधन संख्या No. of amendments	:	Nil
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	Nil
b)	समूहिकरण दिशा निर्देश Grouping Guidelines	:	Not Applicable
c)	नमूने का परिमाण Sample Size	:	250 g
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex-A देखें Please refer ANNEX – A

4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	कृपया Annex-B देखें Please refer ANNEX – B
5.	एक दिन में संभावित परीक्षण Possible tests in a day		
	a) Description b) Tebuconazole Content c) Moisture Content d) Alkalinity as NaOH		
6.	लाइसेन्स का कार्यक्षेत्र/ Scope of the Licence :		
	Licence is granted to use Standard Mark as per IS 15165 : 2002 with the following scope:		
	उत्पाद का नाम Name of the product	Tebuconazole, Technical	

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ANNEX A

List of Test Equipment

Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with Clause Reference	Test Equipment
1	3.1 Description	Visual Observation
2	3.2 Table 1 Sr no. 1, Tebuconazole content, percent by mass, Min	Gas Chromatograph Equipped with detector, flame ionization detector, strip chart recorder, electronic integrator (printer- plotter cum integrator), gas flow adjustor, column, conditions as per clause A – 2.1 of Annex A of IS 15165 Microlitre Syringe- 5/10 microlitre Weighing Balance Volumetric Flasks with Stoppers Internal Standard — Dioctyl Phthalate (DOP) — AR grade or equivalent. Acetone – A.R Grade Tebuconazole Reference Standard — of known purity Distilled water
3	3.2 Table 1 Sr no. 2, Moisture Content, percent by mass, Max	Methanol (water less than 0.05 %) or Ethylene Glycol Monomethyl Ether (Water less than 0.05 %) Iodine Pyridine (Water less than 0.05 %) Sulphur Dioxide Karl Fischer Reagent Dark painted Flasks with ground glass stoppers Weighing Balance Ice Bath/ Solid CO ₂ Cork with a thermometer and an inlet glass tube of 6 to 8 mm, reaching to within 10 mm of the bottom of the flask, and a small capillary tube for connecting to the atmosphere. anhydrous aluminium sodium silicate/silica gel Sodium Tartarate, Crystalline Oven Pipette – 1ml Distilled Water Volumetric Flask Silicone Base Grease Dessicator Karl Fischer Titrator (as per IS 2362) equipped with electrometric end point detector, automatic Burettes, Titration vessel, Amber coloured bottle connected to

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		automatic burette through ground glass joint, double platinum electrode, magnetic stirrer with PTFE coated Stirring Bar, Electrometric end point detection device utilizing a micrometer galvanometer, Glass Syringe, A small glass tube - closed at one end and fitted at the other with a rubber stopper. Weighing Balance 0.1 mg LC Or Completely Automised Karl Fisher Titrators (which meets requirements of IS 2362) may be used
4	3.2 Table 1 Sr no. 3 , Alkalinity as NaOH), percent by mass, Max	Distilled Water pH paper Weighing balance Methyl red indicator Aq.solution/ Bromocresol purple indicator solution in ethyl alcohol Standard Sodium Hydroxide solution Standard Hydrochloric acid solution Conical flasks Acetone Hot plate Distilled water Burette Filter paper Or Electrometric Titrators may also be used
5	As Required for testing and sampling as per IS 10946, IS 6940 and IS 15165	General Laboratory Glasswares

The above list is indicative only and may not be treated as exhaustive.

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ANNEX B
Scheme of Inspection and Testing

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare and implement a calibration plan for the test equipments.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING AND MARKING – The information as mentioned under clause 5 of IS 15165: 2002 shall be legibly and indelibly marked on the label of the container. In addition, the following details shall be mentioned on each container legibly and indelibly:

a) BIS Licence No. CM/L

b) BIS website details i.e – “For details of BIS Certification please visit www.bis.gov.in”.

4. CONTROL UNIT – For the purpose of this scheme, the entire quantity of Tebuconazole, Technical manufactured under similar conditions in a single day shall constitute a control-unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

6. REJECTIONS – 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. Such material shall in no case be stored together with that conforming to the specification

TABLE 1 (Levels of Control)
(Para 5 of Scheme of Inspection and Testing)

(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				
3.1	Description	3.1	IS 15165	R	One	Each control unit	-
3.2	Tebuconazole content	Annex A	IS 15165	R	One	Each Control Unit	-
3.2	Moisture Content	4.1	IS 6940	R	One	Each control unit	-
3.2	Alkalinity; as NaOH	11.3	IS 6940	R	One	Each Control Unit	-

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.