



PRODUCT MANUAL FOR BROMADIOLONE CB ACCORDING TO IS 12913 : 1990

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.	Product	:	IS 12913 : 1990
	Title	:	Bromadiolone CB
	No. of Amendments	:	01
2.	Sampling Guidelines:		
a)	Raw material	:	Bromadiolone, technical used in the formulation of Bromadiolone CB shall conform to IS 12914.
b)	Grouping guidelines	:	NA (No varieties for the product mentioned in IS)
c)	Sample Size	:	500 gm (nominal content & expiry date to be declared)
3.	List of Test Equipment	:	Please refer ANNEX – <u>A</u>
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – <u>B</u>
5.	Possible tests in a day:		
	(i) Description, (ii) Sieving Requirements, (iii) Bromadiolone Content		
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 12913 : 1990 with the following scope:		
	Name of the Product	Bromadiolone CB (Bait Concentrate)	
	Type/Class/Grades/Sizes	Bromadiolone 0.25% CB	

ANNEX - A
TO PRODUCT MANUAL
FOR BROMADIOLONE CB
ACCORDING TO IS 12913 : 1990

LIST OF TEST EQUIPMENT

Major test equipment required to test as per the Indian Standard

Sl. No.	Test Equipment	Test used in with clause reference
1.	75-micron IS Sieve, Weighing balance, accuracy 0.1gm Ro-Tap or sieve shaker machine, Stop watch, Small square rubber cubes, Brush, Dish	Sieving requirements Cl 3.3 (cl 12.1.2.1 of IS 6940)
2.	High Performance Liquid Chromatograph (HPLC) unit with ultra-violet (UV) detector and printer-plotter cum integrator. Weighing balance, accuracy 0.1gm, Hot plate/Heating Mental, Cotton plug/filter paper, <u>Chemicals</u> Di-n Butyl Phthalate (Internal Standard) AR Grade Methanol, HPLC Grade Water, HPLC Grade Bromadiolone Reference Standard Acetic Acid <u>Glasswares</u> Erlenmeyer Flask Conical Flask Volumetric Flask Measuring Cylinder G-5 sintered funnel with vacuum Pipette, accuracy 0.5 ml	Bromadiolone content Cl 3.4 (7.1.1 of IS 12913 and Annex A of IS 12914)

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

ANNEX - B

**SCHEME OF INSPECTION AND TESTING
FOR BROMADIOLONE CB ACCORDING TO IS 12913 : 1990**

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 a calibration plan for the test equipment.

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

3. PACKING AND MARKING – The Standard Mark as given in the schedule of the licence shall be printed on each container of Bromadiolone CB or printed on the labels applied to it as the case may be, provided always that the material in each container to which this mark is thus applied conforms to every requirement of the specification.

3.1 Packing and marking shall be done as per the provision of the Indian Standard. 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 material mixed together in a single operation 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. RAW MATERIAL – The Bromadiolone, technical used in the manufacture of the product shall conform to IS 12914. Each consignment of Bromadiolone, technical shall be accompanied by a test certificate from the supplier regarding its conformity to IS 12914. Alternatively, a sample from each consignment received shall be tested for its conformity to the specification. Records of all tests shall be maintained.

7. 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.

TABLE 1
LEVELS OF CONTROL

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method Cl. Ref.	Test Method IS		No. of Sample	Frequency	Remarks
3.1	Constituents	3.1	IS 12914	S	One	Each consignment	No further testing is required if accompanied with the Test Certificate or ISI marked.
3.2	Description	3.2	IS 12913	R	-do-	Each Control Unit	-
3.3	Sieving Requirements	12.1.2.1	IS 6940	R	-do-	-do-	-
3.4	Bromadiolone Content	7.1.1 & Annex-A	IS 12913 IS 12914	R	-do-	-do-	-

Note-1: 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.

Note-2: 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 empaneled by the Bureau.