



## **IS 12912: 1990 Bromadiolone RB- Specification**

**Rodents**, including rats and mice, are a significant threat to public health, agriculture, and property. They are known to spread diseases such as leptospirosis, salmonella, and hantavirus, while also contaminating food supplies and causing structural damage through gnawing on electrical wires, insulation, and pipes. Rodents can also contribute to the spread of parasites like fleas and ticks.

**Rodenticides**, particularly **anticoagulant types** like Bromadiolone, are an effective tool in controlling rodent populations by disrupting their ability to clot blood, ultimately leading to their death. These poisons are typically formulated as baits and, when used correctly, can significantly reduce rodent infestations. "RB" as suffix denotes **Ready-to-use-Baits**.

**Key Quality Parameters:** a. **Active Ingredient:** Bromadiolone b. Mechanism of Action: Anticoagulant (vitamin K antagonist) c. **Target Species:** Rats, mice, and other rodents d. **Formulation:** Typically available as bait in various forms, including blocks, pellets, or grains e. **Time to Efficacy:** Rodents usually die within 4-7 days after ingestion, though they do not show symptoms of poisoning immediately, reducing the chance of bait-shyness. Consistency, effectiveness in rodent control, and compliance with maximum residue limits remains the key quality parameters.

Bromadiolone is typically used in indoor and outdoor environments, in locations where rodent populations are resistant to first-generation anticoagulant rodenticides like warfarin. Its high efficacy and prolonged action make it a preferred choice in areas with persistent rodent infestations.

Indian Standard on Bromadiolone RB IS 12912: 1990 prescribes requirements specifically the Bromadiolone content, for the end product to meet the intended use of **killing rats** without endangering humans to the extent possible.

Few popular brands in India selling the product are: **RatKill, Catch, Hicare, Hokko, Rentokil.**

Bromadiolone RB, must be registered with the **Central Insecticides Board and Registration Committee (CIBRC)** before they can be sold or distributed in India.