

**Government of Nepal**  
**Ministry of Health and Population**  
**Department of Drug Administration**  
**National Medicines Laboratory**  
**Quality and Method Validation Section**

## **Analytical Profile of Albendazole Bolus**

**Analytical Profile No.:** Alben B 082/083 AP 175

Albendazole Bolus contains not less than 92.5% and not more than 107.5% of the stated amount of Albendazole.

Usual Strength: 600 mg

### **1. Identification:**

Extract a quantity of the powder containing 100 mg of Albendazole with 100 ml of 0.1M Methanolic Hydrochloric Acid, filter, and dilute 1 ml of the filtrate with 0.1 M Sodium Hydroxide. The absorbance of the resulting solution is maximum at about 309 nm.

### **2. Assay:** Determine by UV Spectrophotometry

**Test solution:** Weigh the contents of 20 boli and calculate the average weight. Weigh the powder equivalent to 100 mg of Albendazole in a 250 ml dry volumetric flask, add 150 ml of 0.1 M Methanolic Hydrochloric acid, and sonicate for 15 minutes to dissolve. Cool the sample solution to room temperature, make up the volume with the same diluent, and mix. Dilute 5 ml of the resulting solution to 250 ml with 0.1 M Sodium Hydroxide. Measure the absorbance of the resulting solution at the maximum at about 309 nm.

Calculate the content of Albendazole taking 742 as the specific absorbance at 309 nm.

### **3. Other tests:** As per Pharmacopoeial requirements.