

Product Name:	Fenbendazole Capsules, 222 mg	Lot Number:	12/03/2026
Dosage Form:	Capsule, oral	Sample ID:	RP SPLfC (bn1fb-6)
Label Claim:	222 mg fenbendazole per capsule	Report Date:	March 12, 2026
Manufactured For:	BP Life sales@bpdistributing.com	Report Status:	Released

SUMMARY OF RESULTS

Test	Specification	Result	Conclusion
Identity (LC-UV/MS)	Consistent with fenbendazole reference standard (CAS# 43210-67-9); matching retention time and [M+H] ⁺ m/z	Retention time 3.486 min (matches standard); m/z 300.06 [M+H] ⁺ (theoretical 300 Da)	Conforms
Assay / Potency (HPLC-UV, 300 nm, semi-quantitative vs. reference standard)	90.0–110.0% of label claim (222 mg/capsule)	0.623 mg/mg (w/w) 232 mg fenbendazole/capsule (104.5% of label claim)	Conforms
Average Capsule Fill Weight	Report result	372.9 mg (average of duplicates)	Reported

Acceptance criteria (90.0–110.0% of label claim) reflect standard industry range for finished dietary supplement potency. Potency calculated by semi-quantitation vs. TCI fenbendazole reference standard (0.250 mg/mL, DMSO:MeOH 2.5:97.5).

ANALYTICAL METHOD

Instrument / Column	ACQUITY UPLC® BEH C18, 1.7 µm, 2.1 × 50 mm (35°C)
Mobile Phase A	Water with 0.1% formic acid
Mobile Phase B	Acetonitrile
Flow Rate	0.8 mL/min
Injection Volume	1.5 µL
Gradient	Hold 5% B: 0–0.25 min 5–95% B: 0.25–7.75 min Hold 95% B: 7.75–8.25 min 95–5% B: 8.25–8.35 min Hold 5% B: 8.35–10 min
UV Detection	300 nm (fenbendazole)
Mass Spectrometry	ESI+; [M+H] ⁺ = 299 + 1 = 300 Da

SEMI-QUANTITATION CALCULATION

Experimental Conc. Fenbendazole, mg/mg (w/w) = (average sample fenbendazole peak area / average standard fenbendazole peak area) × (standard conc., mg/mL / sample conc., mg/mL)

= ((623474 + 623573)/2 ÷ 0.250) / ((1001844 + 1001438)/2 ÷ 0.250) = 0.623 mg/mg

Calculated fenbendazole dosage per capsule (mg/capsule) = Experimental Conc. (mg/mg) × Average Capsule Content Weight (mg) = 0.623 mg/mg × 372.9 mg = 232 mg/capsule

% of Label Claim = 232 mg / 222 mg × 100 = 104.5%

Prepared By: BP Life Quality Assurance
Quality Assurance

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