

# CERTIFICATE OF ANALYSIS (COA)

Manganese Dioxide for Catalytic Filtration in Water Treatment

**Manufacturer:** BTL New Material Co., Ltd.  
**Website:** <https://manganesesupply.com>  
**Product Name:** Manganese Dioxide (Catalytic Grade)  
**Application:** Catalytic Filtration for Iron, Manganese Removal

**Batch / Lot No.:** MDCF-2025-\_09\_    **Country of Origin:** China  
**Production Date:** \_2025/9/15\_    **Test Date:** \_2025/9/28\_

Parameter	Specification	Test Result	Method
MnO2 Content	≥ 85.0 %	88.3 %	Chemical analysis
Iron (Fe)	≤ 2.0 %	0.68 %	ICP-OES
Heavy Metals (Pb, As)	≤ 0.01 %	< 0.005 %	ICP-MS
Particle Size	0.8 – 1.25 mm	0.8 – 1.25 mm	Sieve analysis
Bulk Density	1.2 – 1.6 g/cm³	1.38 g/cm³	ASTM C29
Moisture Content	≤ 5.0 %	2.3 %	Gravimetric
pH (as slurry)	6.0 – 9.5	7.4	pH meter

**Conclusion:** PASS – All tested parameters comply with specifications and are suitable for catalytic filtration applications.

**Authorized By:** \_\_\_\_\_ lipan    **Date:** \_2025/10/5\_  
**Signature & Company Stamp**

