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Document Tested: Sample SDF Document

Query Used: What test methods were used for quality control?

Part 1: Configuration Comparison Table

Config	Chunks Retrieved	Best Chunk (short excerpt)	Answer (shortened)	Confidence (1-5)	Notes
A	5	5 bar, 5 min hold; Visual Inspection; Package Integrity	Quality control included pressure hold, visual inspection, and package integrity.	3	Baseline retrieved useful information, but also some general quality-system text.
B	8	5 bar, 5 min hold; Visual Inspection; Package Integrity	The tests included a 5 bar hold, visual inspection, and package integrity.	4	More coverage, but the 0.15 threshold did not remove any of the 8 chunks.
C	5	5 bar, 5 min hold; Visual Inspection; Package Integrity	Pressure hold, visual inspection, and package integrity were used.	5	A higher 0.20 threshold kept the same 5 chunks, so the result stayed close to A.

Part 2: Analysis Questions

- Describe the three configurations you tested. What did you change in each?
- Which configuration gave you the best result, and why?
- I tested three configurations using the same question. Configuration A used top_k=5 with no threshold, so it returned the five closest chunks. Configuration B used top_k=8 with a 0.15 threshold. It gave me more information, but all eight scores were above 0.15, so the threshold did not actually remove anything. Configuration C used top_k=5 with a higher 0.20 threshold. It still returned five chunks because all five scores were above 0.20. I noticed that changing top_k affected how much information I got, while these threshold values did not change the results much for this question.
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- I think Configuration B gave me the best result because it gave me the most context about the quality control process. The strongest chunk showed a 5 bar pressure hold test, visual inspection, and package integrity check. B also included information about bio-safety and product release criteria. At the same time, more chunks can add repeated or less useful information. For this query, B gave me the best coverage, but I would probably use a stronger threshold if I wanted to reduce extra information.
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