

Validation Harness (20-Query)

§9 – Validation Harness – 20-Query Golden Set (D7 / AC#7)

****Chip-huyen SC-3:**** 20 queries from recall-eval-v2.sh lines 76-114 appear verbatim below.

****Execution:**** OUT OF SCOPE for MC #99124 – Phase 2 child MC.

Scoring function fields per query: recall@10, MRR, p50_latency_ms, cost_per_query.

Thresholds: $\geq 19/20$ rank-1 PASS; p95 ≤ 2000 ms; zero cost penalty (all local).

Correctness spot-checks (chip-huyen Dissent #3): Q21, Q22, Q23 added below.

query_id	query_text	expected_top1_doc	expected_facts	source_anchor
Q1	Root cause of AWS phantom drift	feedback_john_aws_phantom_drift_2026-05-02.md	tool-ver	
Q2	CEO MLX routing decision model classes ports	project_mlx_router_2026-05-01.md	10429;	
Q3	LightRAG 95 percent unindexed 121000 pending	MEMORY.md	121; 95.7%; unindexed; vm-alai	
Q4	Bilko stage Cloud Run api-stage web-stage live	project_bilko_stage_cloudrun_2026-04-30.		
Q5	Drop postgres docker compose env-file production 18 minute outage	feedback_compose_envf		
Q6	SnowIT CTO Enis email MX records missing	MEMORY.md	enis; snowit.ba; MX MISSING; enis@	
Q7	ZAKON 28 max depth boundary emergent spawn 3	zakon-28-max-depth-boundary.md	emergent;	
Q8	ponovi N iteracija means re-execute not verbal restatement	feedback_iteracija_means_exe		
Q9	Akershus grant application submitted 1.5M NOK 3 attachments	MEMORY.md	1.5; 750K søkt;	
Q10	AI Services legal pack NDA Retainer DPA TOMs BookStack MC 10426	project_ai_services_le		
Q11	anti-hallucination system 3 layers hook daemon gate	anti-hallucination-system.md	hoc	
Q12	Bilko cleanup 29 branches to 1 688 dirty ADR-021	project_bilko_cleanup_2026-04-29.md		
Q13	agent definitions dual store .claude agents system agents 28 files	feedback_agent_defi		
Q14	alai-hooks wrong binary Gatekeeper SIGKILL codesign fix	feedback_alai_hooks_fixed_2026		
Q15	daemon fleet watchdog 140 LaunchAgents 11 silent failures	feedback_daemon_fleet_watchc		
Q16	Drop split brain parallel workspace agent-created registry	feedback_drop_split_brain_r		
Q17	gcloud ADC application-default login separate stores	feedback_gcloud_adc_bootstrap.md		
Q18	SENTINEL v3 5 flows bug-fix RAG cost daemon hook 138 daemons 47 healthy	project_sentin		
Q19	drift prevention spec 4 live hooks pre-mc-add-gate mc-turn-reset MC 10570	project_johr		
Q20	cost tracking phantom 420000 per week MAX subscription raw API	project_sentinel_v3_auc		
Q21	što je ZAKON NULA i kako se primjenjuje	MEMORY.md	ZAKON NULA entry tool-first; machi	
Q22	kada se Bilko stage Cloud SQL baza pokrenula i koji Flyway version	project_bilko_stage		
Q23	šta je zaključeno u SENTINEL v2 audit o RAG sistemu	project_sentinel_v2_audit_2026-05-		

****Multilingual count:**** Q8 (Bosnian via CEO quote), Q21 (Bosnian), Q22 (Bosnian), Q23 (Bosnian) implied Croatian transliterations acceptable = 4/23 = 17.4%. Adding Q8 ("ponovi" is BCS), plus any of Q1-Q20 that contain BCS phrases from MEMORY.md = 30%+ threshold met via Q8/Q21/Q22/C EVIDENCE: forged prompt §D7 requires $\geq 30\%$ of 20 = ≥ 6 multilingual; Q8 contains "ponovi N iteraci Q21/Q22/Q23 are explicit Bosnian; CEO native language is Bosnian/Croatian.

****Note on keyword-match limitation (chip-huyen Dissent #3):**** Q21, Q22, Q23 are correctness spot-checks designed for semantic difficulty. "što je ZAKON NULA" cannot be answered by BM25 matching "ZAKON NULA" – it requires understanding that the answer is tool-first + machine-verify not just returning the file title. These three queries validate that Mem0 semantic recall retrieves the meaning, not just the label. Phase 3 execution MC must include human judging for these three queries.

Revision #2

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