R Package Validation Report — Tier 1 Screening

abind 1.4-8

Package	abind
Version	1.4-8 [EV-002]
Origin	cran [EV-007]
Tarball sha256	264a051b523ceae1795a0879e7768949ea55c586ac8db0adf1f5ebeddd2623e1 [EV-006]
Intended-use tier	gxp-support
Report generated (UTC)	2026-10-24T09:49:49Z

Decision

NO-GO — overall risk score 0.6211 [EV-016]
0 = low risk, 1 = high; config v1.1.0

Rules evaluated (fired or not, with inputs and thresholds):

Rule	Input	Condition	Fired
overall_score_threshold	0.6211	score ¡ 0.2000 / 0.4000	**FIRED**
news_missing	0	¿ 0.5000	no
news_not_measurable	0	is_na	no
low_downloads	774919	¡ 1000	no
bugs_mostly_open	(no input)	¿ 0.5000	no
no_source_control		is_na	**FIRED**
exports_undocumented	0.8000	¿ 0.5000	**FIRED**
license_risk	(no input)	¿ 0.0000	no
heavy_dependencies	0.7311	¿ 0.5000	**FIRED**

Conditions

- No public source-control repository found — archive the pinned tarball as the controlled source.
- Exported functions lack documentation — require documentation review for functions in scope.
- Large dependency footprint — each dependency needs its own screening decision.
- Escalate to Tier 2 full validation (vendor-style qualification) before any use in this intended-use tier.

Per-Metric Breakdown ({riskmetric})

Metric	Risk (0–1)	Evidence
dependencies	0.7311	EV-017
downloads_1yr	0.9847	EV-018
export_help	0.8000	EV-019
exported_namespace	0.6662	EV-020
has_bug_reports_url	0	EV-021
has_examples	1	EV-022
has_maintainer	1	EV-023
has_news	0	EV-024

Metric	Risk (0–1)	Evidence
has_source_control	0	EV-025
has_vignettes	0	EV-026
has_website	0	EV-027
news_current	0	EV-028
reverse_dependencies	0.9996	EV-029
size_codebase	0.2600	EV-030

Scoring Strategy & Category Subscores

Category	Weight	Subscore (0–1 risk)	Member metrics
code	0.5000	0.5524	dependencies: 0.7311 [EV-017], exported_namespace: 0.6662 [EV-020], remote_checks: NA, size_codebase: 0.2600 [EV-030]
documentation	0.1500	0.3000	export_help: 0.8000 [EV-019], has_examples: 1 [EV-022], has_news: 0 [EV-024], has_vignettes: 0 [EV-026], has_website: 0 [EV-027], license: NA, news_current: 0 [EV-028]
maintenance	0.2000	0.3333	bugs_status: NA, has_bug_reports_url: 0 [EV-021], has_maintainer: 1 [EV-023], has_source_control: 0 [EV-025]
popularity	0.1500	0.9922	downloads_1yr: 0.9847 [EV-018], reverse_dependencies: 0.9996 [EV-029]

Rubric: each category subscore is the equal-weighted mean of its member metrics' non-null riskmetric scores (0 = low risk, 1 = high risk); weights disclose the relative importance of each category. Category subscores are display-only — the overall score and the decision thresholds are unchanged.

Classification & Sign-off

Not classified — no intended use or justification was recorded for this assessment.

Risk classification: PENDING HUMAN REVIEW — this tool does not classify.
Sign-off: PENDING HUMAN REVIEW — machine-generated screening output; human QA sign-off pending. This tool never signs.

Evidence Register

ID	Metric	Value	Mode
EV-001	description.package	abind	local
EV-002	description.version	1.4-8	local
EV-003	description.title	Combine Multidimensional Arrays	local
EV-004	description.license	MIT + file LICENSE	local
EV-005	description.maintainer	Tony Plate ¡tplate@acm.org¿	local
EV-006	tarball.sha256	264a051b523ceae1795a0879e7768949ea55c586ac8db0adf1f5ebedd...	
EV-007	ingest.origin	cran	local
EV-008	ingest.source_url	https://cran.r-project.org/src/contrib/abind_1.4-8.tar.gz	local
EV-009	cran.version	1.4-8	network

ID	Metric	Value	Mode
EV-010	cran.title	Combine Multidimensional Arrays	network
EV-011	cran.publication_date	2024-09-08	network
EV-012	cran.maintainer	Tony Plate ¡tplate@acm.org¿	network
EV-013	cran.license	MIT + file LICENSE	network
EV-014	cran.imports_count	2	network
EV-015	downloads.last_month_total	774919	network
EV-016	riskmetric.overall_score	0.6211	riskmetric
EV-017	riskmetric.score.dependencies	0.7311	riskmetric
EV-018	riskmetric.score.downloads_1yr	0.9847	riskmetric
EV-019	riskmetric.score.export_help	0.8000	riskmetric
EV-020	riskmetric.score.exported_namespace	0.6662	riskmetric
EV-021	riskmetric.score.has_bug_reports_url	0	riskmetric
EV-022	riskmetric.score.has_examples	1	riskmetric
EV-023	riskmetric.score.has_maintainer	1	riskmetric
EV-024	riskmetric.score.has_news	0	riskmetric
EV-025	riskmetric.score.has_source_control	0	riskmetric
EV-026	riskmetric.score.has_vignettes	0	riskmetric
EV-027	riskmetric.score.has_website	0	riskmetric
EV-028	riskmetric.score.news_current	0	riskmetric
EV-029	riskmetric.score.reverse_dependencies	0.9996	riskmetric
EV-030	riskmetric.score.size_codebase	0.2600	riskmetric
EV-031	riskmetric.raw.bugs_status	[assessment error: unknown]	riskmetric
EV-032	riskmetric.raw.downloads_1yr	9642608	riskmetric
EV-033	riskmetric.raw.has_bug_reports_url	0	riskmetric
EV-034	riskmetric.raw.has_maintainer	Tony Plate ¡tplate@acm.org¿	riskmetric
EV-035	riskmetric.raw.has_news	0	riskmetric
EV-036	riskmetric.raw.has_vignettes	0	riskmetric
EV-037	riskmetric.raw.license	MIT + file LICENSE	riskmetric
EV-038	riskmetric.raw.size_codebase	427	riskmetric
EV-039	riskmetric.excluded_metrics	assess_covr_coverage, assess_r_cmd_check	riskmetric

Tier-2 Sandbox Validation

Deep validation in a throwaway R sandbox (package code executed in isolation): R CMD check, the package's own test suite and test coverage, pinned to the recorded CRAN snapshot.

Annex: System Information

Generator: rval-gateway 0.8.0 (Python stdlib); R version 4.5.3 (2026-03-11); {riskmetric} 0.2.7; decision config v1.1.0 (sha256 4ae212e568b1c6e68225170e
evidence collection mode: network.

Evidence collected at (UTC)	2026-10-24T09:43:51Z
Assessment scored at (UTC)	2026-10-24T09:43:50Z
Network sources ok / failed	2 / 0

Approval Timeline

Audit-chain events for this package (assessment → electronic signature → repository publish), in chain order; details carry the sha256 record-hash prefix of each tamper-evident audit record.

Event	Actor	Timestamp (UTC)	Detail / record
assessment	public-demo-refresh	2026-10-24T09:43:51Z	NO-GO (tier gxp-support, score 0.6211) [222f90839c5b]

Provenance. Generator: rval-gateway 0.8.0 (Python stdlib). Scores computed by an R subprocess: R version 4.5.3 (2026-03-11), {riskmetric} 0.2.7 (two-process pattern; code-executing metrics excluded — assessed package code was not executed). Decision config v1.1.0 (sha256 4ae212e568b1). Evidence collection mode: network. Hard rule: no statement without an evidence ID; sections lacking

evidence are suppressed. Tier-1 screening output under a two-tier strategy; metrics inform a qualified human's assessment and are not a proof of correctness.