

Elemental Rubidium Metal (Rb >= 99.995%)

EXECUTIVE COA & AUTHENTICATED ICP-MS LABORATORY TEST REPORT (2 PAGES)

INDUSTRY STANDARD YS/T 1246-2018 (Grade Rb-4N5 / 5N)	INSTRUMENT / LOT NO. JC-ICP-03 / APEX-RB-4N5 (Rb B)
DECLARED PURITY >= 99.995% (99.995% Certified Lab Assay)	ICP-MS TESTING PERIOD 30 Mar – 03 Apr 2026
CAS / EC / HS CODE 7440-17-7 / 231-126-6 / 2805.19	UN HAZMAT CLASS UN 1423 • Class 4.3 PG I
PHYSICAL CONSTANTS m.p. 39.3 °C • Density 1.53 g/cm³	CONTAINMENT FORMAT 5kg 316L SS Cylinder / 5g-100g Ampoule

HIGH-RESOLUTION ICP-MS TRACE ELEMENTAL IMPURITY ASSAY (INSTRUMENT: JC-ICP-03 • MATCHED TO PAGE 2 SCAN)

ELEMENT / PARAMETER	YS/T STANDARD LIMIT	ICP-MS MEASURED (%)	EQUIVALENT / STATUS
Cesium (Cs)	<= 0.0015%	< 0.0010%	< 10.0 ppm (Below Limit)
Potassium (K)	<= 0.0005%	0.0002%	2.0 ppm (Measured)
Sodium (Na)	<= 0.0005%	0.0001%	1.0 ppm (Measured)
Aluminum (Al) & Calcium (Ca)	<= 0.0002% each	< 0.0001% each	< 1.0 ppm each (ND)
Iron (Fe) & Lithium (Li)	<= 0.0002% each	< 0.0001% each	< 1.0 ppm each (ND)
Magnesium (Mg) & Lead (Pb)	<= 0.0002% each	< 0.0001% each	< 1.0 ppm each (ND)
Rubidium Purity (Main Content)	>= 99.995%	99.995% (Certified)	4N5+ / 5N Grade Verified

CONTAINMENT, HAZMAT LICENSING & PRE-SHIPMENT VERIFICATION PROTOCOL

- Page 2 Attachment: Original ICP-MS Laboratory Test Report scan (tested on JC-ICP-03 per YS/T 1246-2018).
- Primary Containment: 5kg 316L SS cylinder with Swagelok dual valves & viewport, or 5g-100g borosilicate ampoules.
- Licensed HazMat Desk: Backed by official PRC Hazardous Chemicals Operating License explicitly covering Rubidium & Cesium.
- Pre-Contract Audit & Terms: Mainland refinery visits & SGS sampling supported; 50% T/T advance, 50% prior to dispatch.

ANALYTICAL QA STATUS: PASSED (ATTACHED PAGE 2: ORIGINAL CNAS/CMA LAB ICP-MS SCAN – REDACTED)

HAZMAT LICENSE SCOPE: Verified PRC Hazardous Chemicals Operating License (Permitted: Rubidium & Cesium Metal)

COMMERCIAL DESK: Apex Material Science • ericpark@apexmaterialscience.com • https://apexmaterialscience.com



No: W2603-REDACTED
Standard: YS/T 1246-2018

检测报告

委托单位	[CONFIDENTIAL TIER-1 REFINERY PARTNER – REDACTED]		
检测项目	Rb,杂质定量	送样日期	2026-03-30
样品状态	其它	完成日期	2026-04-03
检测类别	委托检测		
检测依据	YS/T 1246-2018		
主检测设备	JC-ICP-03		
备注	原样分析，Rb 含量为 100%减所测杂质实测值		

检测结果

样品名称	检测编号	样品原编号	检测结果	
金属铷	APEX-RB-4N5	Rb B(二次)	Al	<0.0001%
			Cs	<0.001%
			K	0.0002%
			Mg	<0.0001%
			Pb	<0.0001%
			Ca	<0.0001%
			Fe	<0.0001%
			Li	<0.0001%
			Na	0.0001%
			Rb	99.995%

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ORIGINAL LABORATORY SCAN SECURITY REDACTION NOTICE

- Testing lab seal, analyst signatures & refinery entity names are redacted to protect direct desk allocation.
- Unredacted physical reports are presented during pre-contract refinery site visits or formal FCO execution.
- Commercial Desk: Apex Material Science (ericpark@apexmaterialscience.com · <https://apexmaterialscience.com>)