

Elemental Cesium Metal (Cs >= 99.995%)

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

INDUSTRY STANDARD YS/T 1245-2018 (Grade Cs-4N5 / 5N)	INSTRUMENT / LOT NO. JC-ICP-03 / APEX-CS-4N5 (No. 1)
DECLARED PURITY >= 99.995% (99.995% Certified / 99.99887% by Diff.)	ICP-MS TESTING PERIOD 18 May – 21 May 2026
CAS / EC / HS CODE 7440-46-2 / 231-155-4 / 2805.19	UN HAZMAT CLASS UN 1407 • Class 4.3 PG I
PHYSICAL CONSTANTS m.p. 28.5 °C • Density 1.93 g/cm³	CONTAINMENT FORMAT 5kg 316L SS Canister / 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
Rubidium (Rb)	<= 0.0015%	0.00060%	6.0 ppm (Measured)
Sodium (Na)	<= 0.0008%	0.00041%	4.1 ppm (Measured)
Potassium (K)	<= 0.0005%	0.00012%	1.2 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)
Cesium Purity (Main Content)	>= 99.995%	99.995% (99.99887% Diff)	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 1245-2018).
- Optical Phase Monitoring: 316L SS canister with optical quartz viewport showing golden crystalline/liquid phase (28.5 °C).
- 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: W2605-REDACTED

Standard: YS/T 1245-2018

检测报告

委托单位	[CONFIDENTIAL TIER-1 REFINERY PARTNER – REDACTED]		
检测项目	Cs,杂质定量	送样日期	2026-05-18
样品状态	其它	完成日期	2026-05-21
检测类别	委托检测		
检测依据	YS/T 1245-2018		
主检测设备	JC-ICP-03		
备注	原样分析，Cs 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	
金属铯	APEX-CS-4N5	1 号	Al <0.0001%	Ca <0.0001%
			Cs 99.995%	Fe <0.0001%
			K 0.00012%	Li <0.0001%
			Mg <0.0001%	Na 0.00041%
			Pb <0.0001%	Rb 0.0006%

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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>)