Sabiha Research and Development Limited
(Formerly known as Sabiha Research and Development LLP)
Regd. Office : Plot No. 7, Industrial Area,
Village Bhagwanpur, Derabassi,
Distt. S.A.S. Nagar - 140 507 (Punjab) INDIA
+91 81462 71326

CIN No. : U71200PB2025PLC066110

Certificate of Analysis

Secondary Certified Reference Standard NIST traceable Chromium (Cr) Standard Solution 1000 mg/L (in 2% HNO_3)

Molecular Formula:	NA	**Lot No.:**	C-004
Molecular Weight:	NA	**Cat No.:**	NIST-016
Packing :	100 mL	**Dt. of Issue of Certificate:**	19/12/2025
CAS No.:	NA	**Dt. of Mfg:**	Dec 2025
Traceability:	To NIST SRM 3112a	**Exp. Dt.:**	Nov 2027

TABLE :1 Certified Value

Measurand / Constituent	Certified Value	Expanded Uncertainty (K=2)
Chromium mass fraction (mg/kg)	1042	± 7
Chromium Concentration (mg/L)	1000	± 7

- *This Chromium Standard Solution is prepared by using ISO 17034:2016 certified RM & comparing with Chromium Standard solution of NIST SRM 3112a.*
- *The Chromium Standard Solution is prepared gravimetrically using high ISO 17034:2016 CRM Chromium Potassium Dichromate as starting material, whose purity is determined by primary method. The Chromium Standard Solution is prepared in 0.8 mol/L nitric acid. One unit of this Reference Material consists of 100 ml Chromium Standard Solution packed in tightly sealed white HDPE bottles. Certified value of Chromium Standard Solution along with the associated uncertainty was calculated at 95% confidence level with coverage factor k=2, considering major sources of uncertainty including measurement replication, instrument background, buoyancy correction.*

Traceability: *The test result is traceable to Standard Reference Material of National Institute of Standards and Technology (USA), SRM 3112a.*

Intended use: This reference material is intended to be used as a standard for AAS/ICP-OES & ICP-MS quantitative determination of Chromium and calibration of instruments.

Precautions:

i) The sampling should be done using clean and dry pipette/micropipette.
ii) Excess sample must be rejected and must not be put back into the original bottle.
iii) Gloves, masks, goggles and other general precautionary measure should be used while handling the reference material.

Accreditation: Sabiha Research And Development ltd. is accredited to ISO 17025:2017.

Expiry: The validity of the standard is 2 years from date of manufacturing, However once the bottle is opened the expiry shall be one year from date of opening but with in overall shelf life of the standard.

Do not freeze, store the bottle tightly closed between 5 - 30°C at room temperature protected from light, keep container tightly closed. Do not put back unused solution into original bottle. For laboratory and industrial use only, not for Human/Animal consumption.

QC Supervisor

*Sign*_____

Plot No. 7, Industrial Area, Village Bhagwanpur, Derabassi, Distt. S.A.S. Nagar 140 507 (Punjab) INDIA
+91 9876471976 sabiharesearchdb@gmail.com