

5-CHROM™ SERIES · 5-DIAGNOSTICS · CHROMOGENIC PEPTIDE SUBSTRATES

The substrate range for coagulation & fibrinolysis
— *available worldwide.*

The 5-CHROM™ series spans the major coagulation and fibrinolytic serine proteases — **thrombin, Factor Xa, Protein C, plasmin, kallikrein, urokinase, tPA**. Each is a highly purified synthetic peptide releasing para-nitroaniline (pNA) at 405 nm, lyophilized with mannitol. The thrombin (anti-IIa) and Factor Xa (anti-Xa) substrates are used for **heparin potency QC under European & US Pharmacopoeia** — and every substrate is a direct equivalent to the Chromogenix S-series. **Global supply** from 5-Diagnostics.

THE COMPLETE 5-CHROM RANGE

5-CHROM	TARGET PROTEASE	CHROMOGENIX	REF
5-CHROM-38	Thrombin (FIIa) · HEPARIN ANTI-IIA QC — EP/USP	S-2238	A5D-30805
5-CHROM-81	Thrombin — alternative substrate	—	A5D-30809
5-CHROM-22	Factor Xa	S-2222	A5D-30803
5-CHROM-32	Factor Xa	S-2732	A5D-30804
5-CHROM-65	Factor Xa · HEPARIN ANTI-XA QC — EP/USP	S-2765	A5D-30807
5-CHROM-66	Activated Protein C	S-2366	A5D-30808
5-CHROM-03	Plasmin / Plasminogen-SK	S-2403	A5D-30802
5-CHROM-02	Kallikrein	S-2302	A5D-30801
5-CHROM-44	Urokinase (uPA)	S-2444	A5D-30806
5-CHROM-88	tPA & broad-spectrum serine proteases	S-2288	A5D-30812

All substrates supplied lyophilized (~25 mg/vial) with mannitol; defined enzymology (peptide sequence, MW, K_m , k_{cat} , molarity per vial) available on request.

WHY THE 5-CHROM SERIES

PHARMACOPOEIA-GRADE QC

Thrombin (anti-IIa) and FXa (anti-Xa) substrates for heparin potency testing in compliance with European & US Pharmacopoeia.

DROP-IN EQUIVALENTS

Same peptide sequences and pNA-at-405 nm readout as the legacy Chromogenix S-series — no protocol re-design.

GLOBAL SUPPLY

Available worldwide from 5-Diagnostics through Aniara — a dependable second source for routine and production-scale use.

REFERENCE FRAMEWORK Anti-IIa and anti-Xa chromogenic methods for heparin (UFH/LMWH) potency follow the *European Pharmacopoeia* and *USP* assays. Peptide sequences correspond to the established Chromogenix substrates — e.g., 5-CHROM-22 = Bz-Ile-Glu-Gly-Arg-pNA (S-2222), 5-CHROM-66 = pGlu-Pro-Arg-pNA (S-2366), 5-CHROM-88 = H-D-Ile-Pro-Arg-pNA (S-2288).

Regulatory & availability: 5-CHROM™ substrates are synthetic, highly purified research-grade reagents for research and pharmaceutical quality-control applications — **not for use in diagnostic procedures**. The user establishes and validates assay conditions and protease specificity. Manufactured by 5-Diagnostics and distributed **worldwide** by Aniara Diagnostica. “Chromogenix” and S-series designations are referenced for cross-identification only and remain the marks of their respective owner. Single-vial and bulk formats; pricing on request. © 2026 Aniara Diagnostica, Inc.