

iGEN DNA Extraction Tech



New technology that improves your DNA extractions yields

iGEN DNA extraction kits are based on an advanced and proprietary technology developed by **iGEN Biotech**, providing better results and yields to your DNA purification process. This new technology shows high performance, even from complex and limited samples.

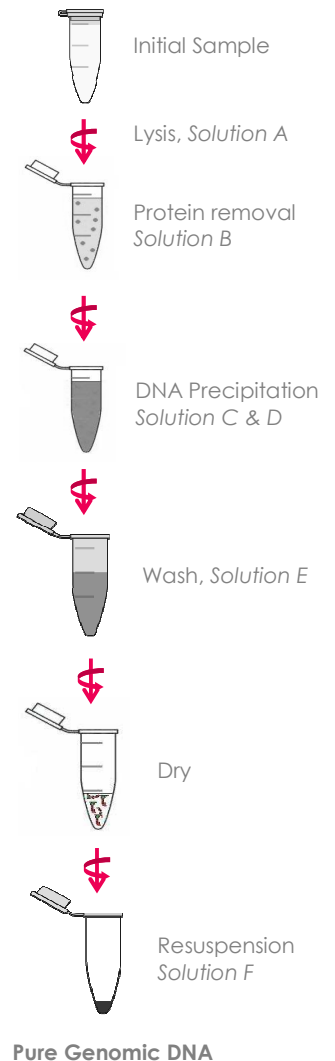
iGEN Biotech's kits are a range of innovative DNA purification systems, specifically designed and ready-to-use for different types of samples: **prenatal** (amniotic fluid and chorionic villi), **blood**, **paraffin embedded samples** and **liquid biopsies** (plasma, serum, urine and other cell free body fluids).

Technology

This innovative technology optimizes the classic organic-phase extraction protocol, introducing the following improvements:

- Simplifies the procedure.
- Avoid the use of silica columns.
- Guarantees a minimum fragmentation, allowing to apply the DNA obtained in sensitive downstream analysis such as RFLP, Southern blot, microarrays, q-PCR, a-CGH, X-map, and others.

This technology was initially developed for low cellularity samples and it has been optimized for different types of samples such as blood, fresh or formalin fixed paraffin embedded tissues **and, recently for liquid biopsies.**



Competitive advantage

- High yield and purity DNA from minimal starting amount.
- Approved for *in vitro* diagnostic use (CE-IVD).
- Guarantees minimal DNA fragmentation.
- Lead to shorter diagnostic times.
- Easy and guided procedures.

iGENatal kit is considered **the most efficient DNA extraction kit** according to a scientific study from The UK National Health System.

Callaway J.L., Huang S., Karampetsou E., et al. (2014) "Perspective on the technical challenges involved in the implementation of array-CGH in prenatal diagnostic testing". *Biotechnol.* pp.: 312-8.



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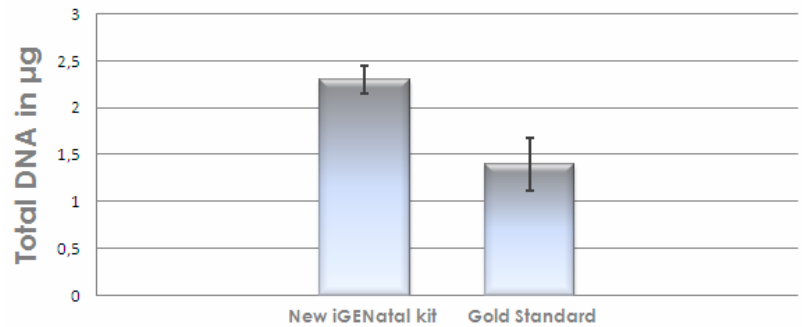
Prenatal - NEW iGENatal (CE-IVD)

New and optimized version of **iGENatal kit**, specifically developed for amniotic fluid and chorionic villi, avoiding the use of phenol during the extraction.

Product specifications:

- **2-hours** time assay.
- **High yield:** High DNA yield from as little as 5×10^4 cells from prenatal sample.
- **Minimum starting amount:** 2-4 mL amniotic fluid or 2-3 mg chorionic villi.
- **Safety and usability:** **NEW** version does not contain phenol.

DNA yield from 5×10^4 cells

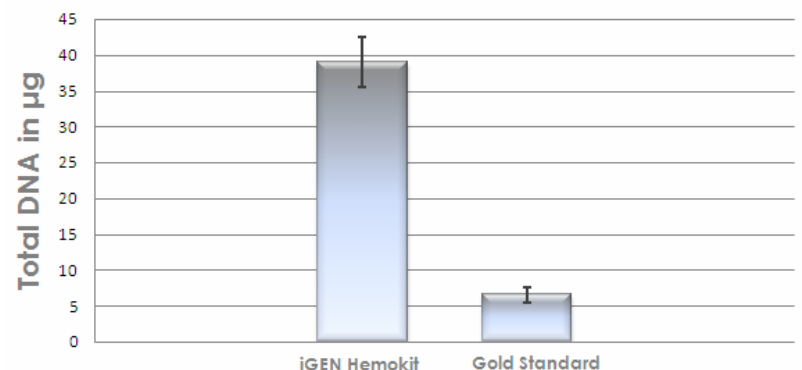


Whole blood - iGEN Hemokit (CE-IVD)

Product specifications

- **Minimum starting volume:** just 50 µl of whole blood.
- Obtains **three times greater yields** compare to gold standard.
- **High quality and purity of DNA obtained.**
- **Safety and usability:** the kit does not contain phenol.

DNA yield from 1 ml blood

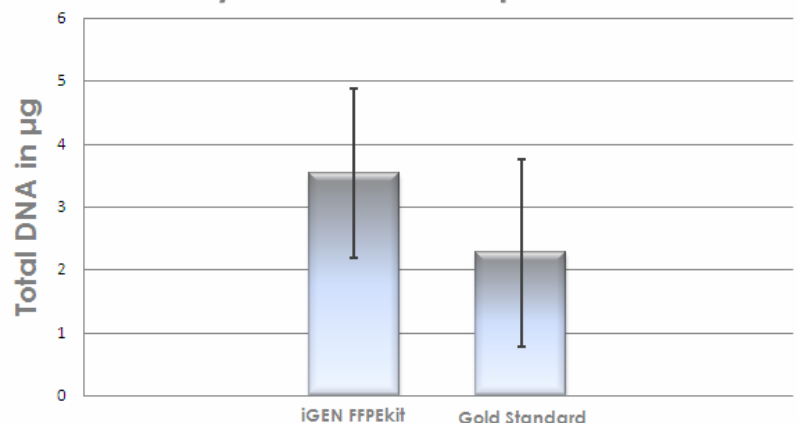


FFPE - iGEN FFPE Kit (For Research Use Only)

Product specifications:

- Specifically developed for tissue samples embedded in paraffin.
- Higher yields and quality DNA obtained.
- Includes deparaffinization and DNA extraction steps.

DNA yield from 2×10^4 µl FFPE sections





Circulating cell-free DNA – iGEN cfDNA Kit (For Research Use Only)

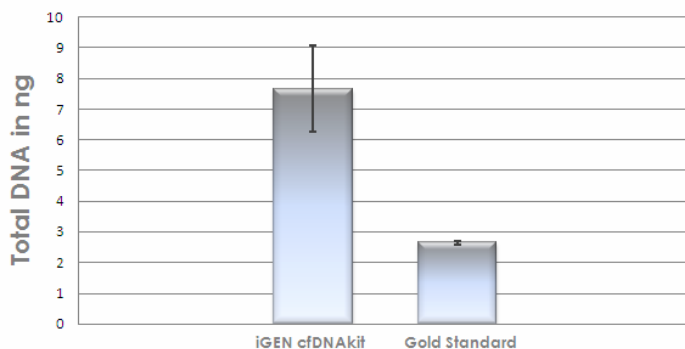
Circulating DNA extraction kit from serum, plasma, urine or from other cell-free body fluids based on high-efficient iGEN DNA Extraction Technology, which provides better DNA quality and yields with a minimal sample amount.

NEW

Product specifications:

- Based on innovative DNA extraction technology developed by **iGEN Biotech**.
- Starting material: serum, plasma, urine or other cell-free body fluids.
- **Minimum starting volume:** just 0,5 mL (for serum, plasma and urine).
- **High efficiency results.**
- Easy-to-use.
- Available to use as a first step to run others genetic and epigenetic analysis technologies, such as PCR, Quantitative PCR, SNPs genotyping, etc.
- Extraction time: 90 min.

DNA yield from 1 ml serum/plasma



Clinical applications of circulating cell-free DNA

- Non-invasive prenatal diagnosis.
- cfDNA genotyping for cancer diagnosis
- cfDNA for monitoring response to treatment and to asses response and resistance.

Feedback is highly welcome for contributing in **iGEN cfDNA Kit**'s validation in different types of samples. Please, if you are interested to collaborate, contact us through:
igen@igenbiotech.com / info@dnaextractiontech.com

Order information

- Our company **iLAB Tech, S.L.** is in charge of manufacturing and shipping process.
- To place an order, please send an email to igen@igenbiotech.com / info@dnaextractiontech.com, or send a fax to: +34 915 191 326.
- Products reference:

Product commercial name	# extractions	Product reference
NEW iGENatal	20	NNATAL2.20
	50	NNATAL2.50
iGEN Hemokit	20	HEMOKIT 2.20
	50	HEMOKIT 2.50
iGEN FFPE Kit	20	FFPEKIT 2.20
	50	FFPEKIT 2.50
iGEN cfDNA Kit	20	CFKIT 3.20
	50	CFKIT 3.50

