**iGEN Pure.**
**HIGH QUALITY NUCLEIC ACIDS EXTRACTION KIT FROM A VARIETY OF SAMPLES.**
**50 EXTRACTIONS. V.1 JUNE 2020.**

**General instructions:**
To ensure proper use and handling, please READ THE ENTIRE MANUAL BEFORE USING THE KIT.
Labelling the top of each vial upon arrival of the kit is highly recommended to avoid mistakes. Keep solutions closed and in a ventilated place.
This kit is indicated for In Vitro Diagnosis procedures from minimal amounts of a variety of samples (up to 150 µl sample).
The approximate processing time is 90 minutes.

**Kit contents:**

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| Solution A | 25 ml |
| Solution B | 8 ml |
| Solution C | 3,5 ml |
| Solution D | 2x 20 ml |
| Solution E | 27 ml |
| Solution F | 3 ml |
| 1.5 ml tubes | 100 |

**Equipment and materials required but not supplied:**
The following equipment and materials are required:
- Pipets and pipet tips (use filter tips to avoid cross-contamination).
- Disposable gloves.
- Heating block for sample lysis at 56ºC.
- Microcentrifuge
- Vortexer

**Technical considerations:**

This kit was specially designed with the aim of obtaining, in a reproducible manner, high quality nucleic acids (DNA and RNA) for subsequence uses in genetic diagnostic procedures or pathogen detection (bacteria or viruses with DNA or RNA genome). To obtain a high pure DNA preparation, RNase treatment can be used. To obtain a high pure RNA preparation, DNase treatment can be used.

**Storage:**

Keep container tightly closed in a well-ventilated place. All buffers can be stored at room temperature (15-25ºC). If temperature exceeds 25ºC, is recommended to store at least solution A and C, in a cool place (2-8ºC). White precipitates can be formed in solution A when stored in a cool place.
Remember, if stored at (2-8ºC) solutions should be homogenized and equilibrated to room temperature before use, especially solution A to dissolve white precipitates formed.
All buffers are stable for at least 2 year when stored at room temperature (15-25ºC) but only until the kit expiration date (see box label). If stored at 4ºC the kit is stable for more than 2 year and quality does not decrease.

**Procedure recommendations:**
- Samples
The extraction procedure can be performed from solid samples (tissue, biopsy, cell pellet…) or liquid samples (blood, plasma, urine, saliva, swaps transport medium…) up to 150 µl. In the case of whole blood, it is recommend to use up to 25 µl. For larger volumes, you can use our *iGEN Hemokit*® (Ref. HEMOKIT2.50).
- Solutions
Gently homogenize every solution before use, especially solutions A and C if stored in a cool place.
- Dry
It is recommended not overdrying the final pellet in order to avoid a difficult DNA solubilization. Add F solution when the pellet starts drying.

**DNA Quantity and quality**

**Concentration**
Fluorometric based method should be used in order to get accurate and reliable concentration readings. Use specific DNA or RNA methods according to your requirements.



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