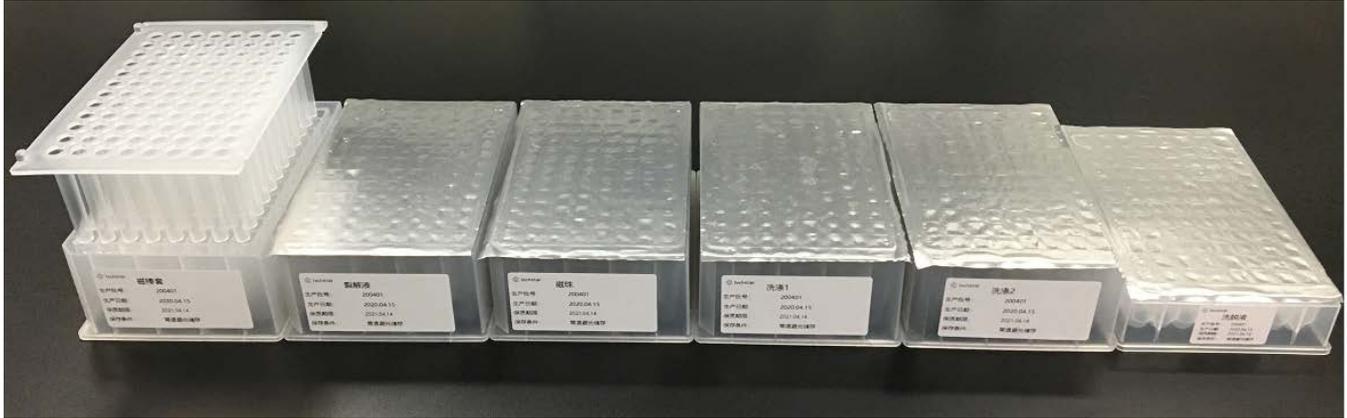


NEST MagPure™ Nucleic Acid Extraction Kit (Magnetic Beads Method)



Product Application

The kit is composed of reagents for nucleic acid extraction (magnetic beads method), suitable for extracting genomic nucleic acid DNA and RNA of bacteria, viruses and parasites from samples. It is designed for 96-well plate automatic platforms to help dramatically improve the throughput of sample extraction.

Principle of Extraction

The kit uses a unique magnetic bead and buffer system. The surface of the magnetic bead is modified with special chemical groups, which have extremely strong enrichment ability for DNA/RNA under certain conditions and can reversibly release DNA/RNA when the conditions are changed to rapidly separate and purify DNA/RNA and to remove impurities like proteins as far as possible. The extracted high-quality nucleic acids can be used for serial experiments like PCR, RT-PCR, gene sequencing, etc.

List of Product Composition **Cat.No.: 170000**

Product name	Amount	Capacity	Components of Pre-filled Solution
96-tip Plastic Comb	1 pcs	/	/
Sample Plate	1 pcs	400μL×96 wells	Guanidine salt, surfactant, EDTA, buffer, etc.
Magnetic Bead Plate	1 pcs	200μL×96 wells	Magnetic beads, buffer, etc.
Washing Plate 1	1 pcs	500μL×96 wells	Guanidine salt, EDTA, etc.
Washing Plate 2	2 pcs	500μL×96 wells	75% ethanol
Eluting Plate	1 pcs	100μL×96 wells	TE buffer
Protein K	1 mL x 2 pcs	/	Protein K (PK)

Applicable Models



King Fisher Presto



King Fisher Flex

Product Advantages

- Transport at Ambient Temperature:** The kit contains the proprietary “proteinase K” that can be stored at ambient temperature, therefore the whole kit can be transported and stored at ambient temperature.
- Easy to Use:** sub-packed reagents, use directly after tearing the sealing film.
- Good Sealing:** high-stickiness sealing film, to further prevent fluid leakage during transport.
- High Extraction Purity of Sample Nucleic Acid, Low Inter-lot Difference**

Performance Parameter

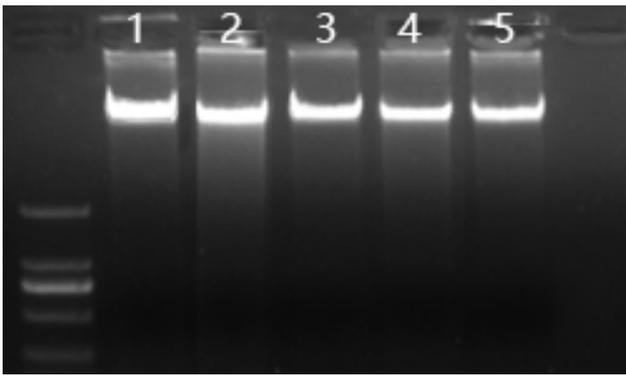
- Extraction Purity:** A260/280= 1.7-2.0, A260/230 >1.9
- Yield of Nucleic Acid:** >85%
- Extraction Time:** around 45 min
- Extracted Number:** 96 samples for each run
- Sample Adding Amount:** 100-300µL of the sample
- Acceptable Sample Types:** serum, plasma, cultured cells, saliva, alveolar lavage fluid, nasopharyngeal aspirate, swab samples, etc.

Performance Verification

1. Validation of Nucleic Acid Extraction from Different Types of Samples

Sample No.	Sample Type	Sample Size	A260/280	A260/230	Nucleic Acid Yield (µg)
1	Nasopharyngeal aspirate	200 µl	1.84	1.95	4.2
2	Human serum	200 µl	1.84	2.03	1.8
3	Nasal swab	1 swab	1.87	2.19	2.3
4	Oral swab	1 swab	1.85	1.84	1.9
5	Saliva	200 µl	1.84	2.04	9.2

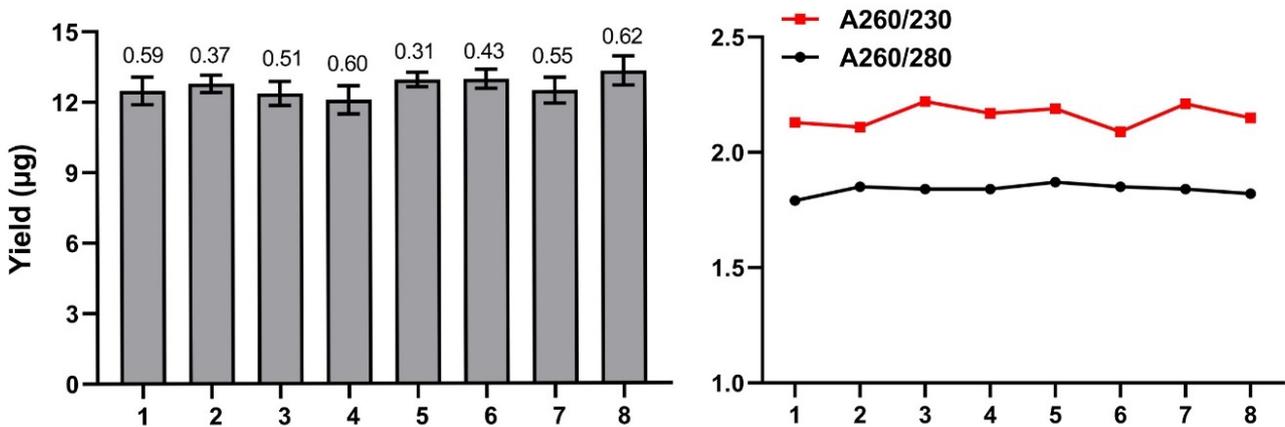
Note: the data in the table are obtained from testing the samples collected by our company’s labs, which cannot represent the yield of all samples of the sample type and are only for reference.



DNA/RNA Electropherogram of Different Sample Types

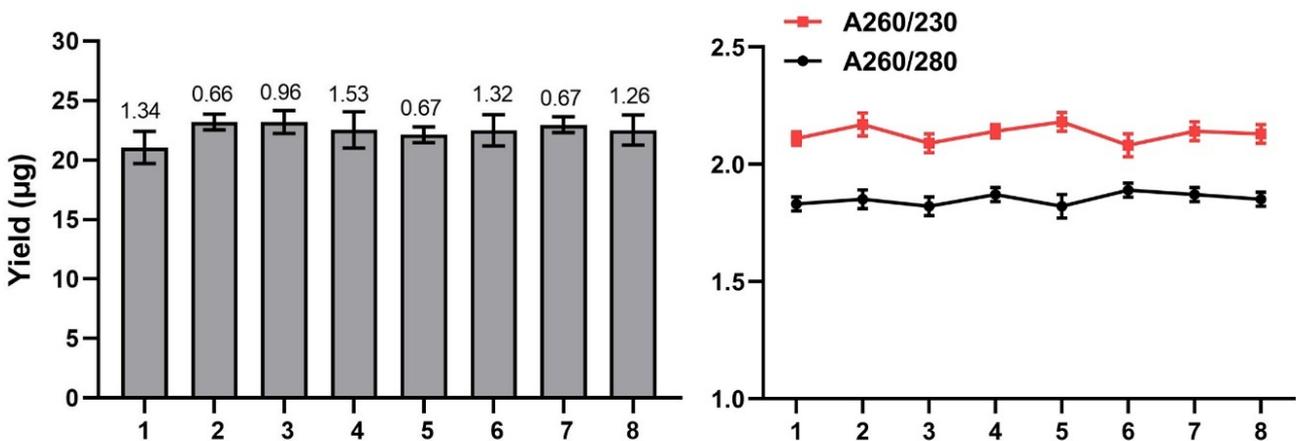
2. Validation of Repeatability:

Same batch of products. For the yield and purification data of DNA/RNA extraction from the same sample, A260/280 within 1.7-1.9, A260/230 > 1.9



3. Validation of Inter-lot Difference:

Different batch of products. For the yield and purification data of DNA/RNA extraction from the same sample, A260/280 within 1.7-1.9, A260/230 > 1.9



Usage Procedure



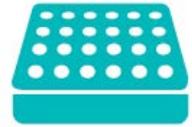
Peel cover off plate



Add sample, and Protein K



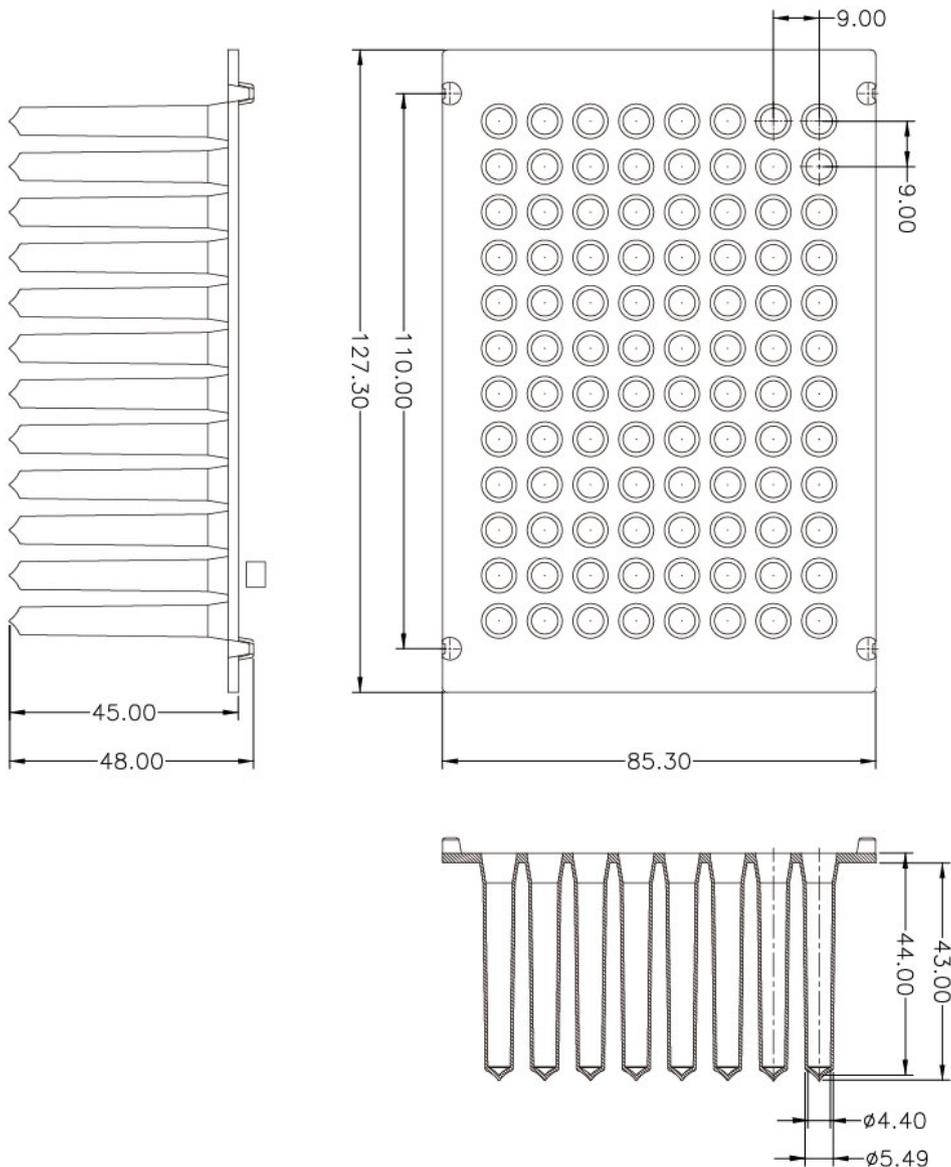
Load onto instrument and run



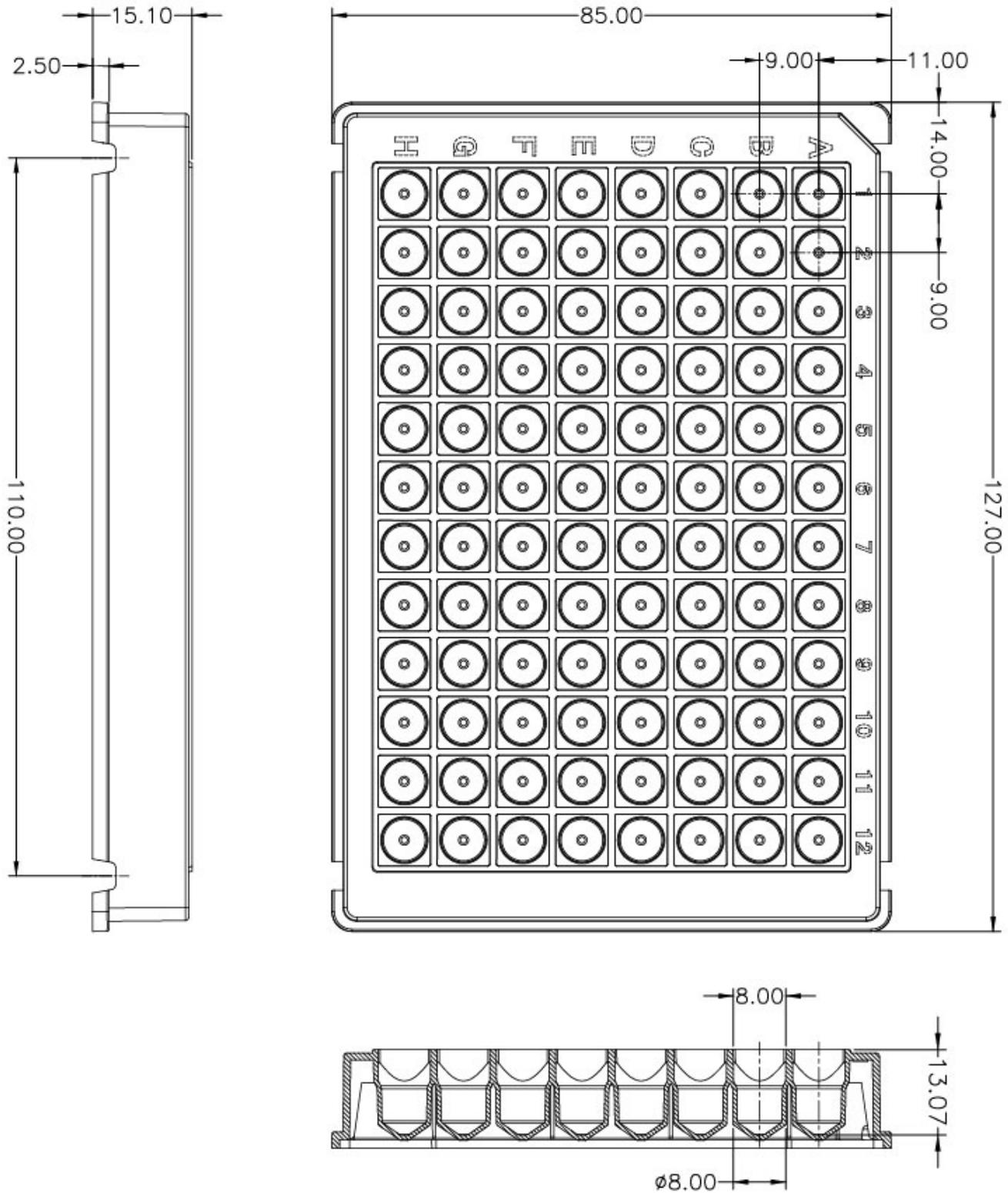
Purified DNA ready for analysis

Technical Drawing

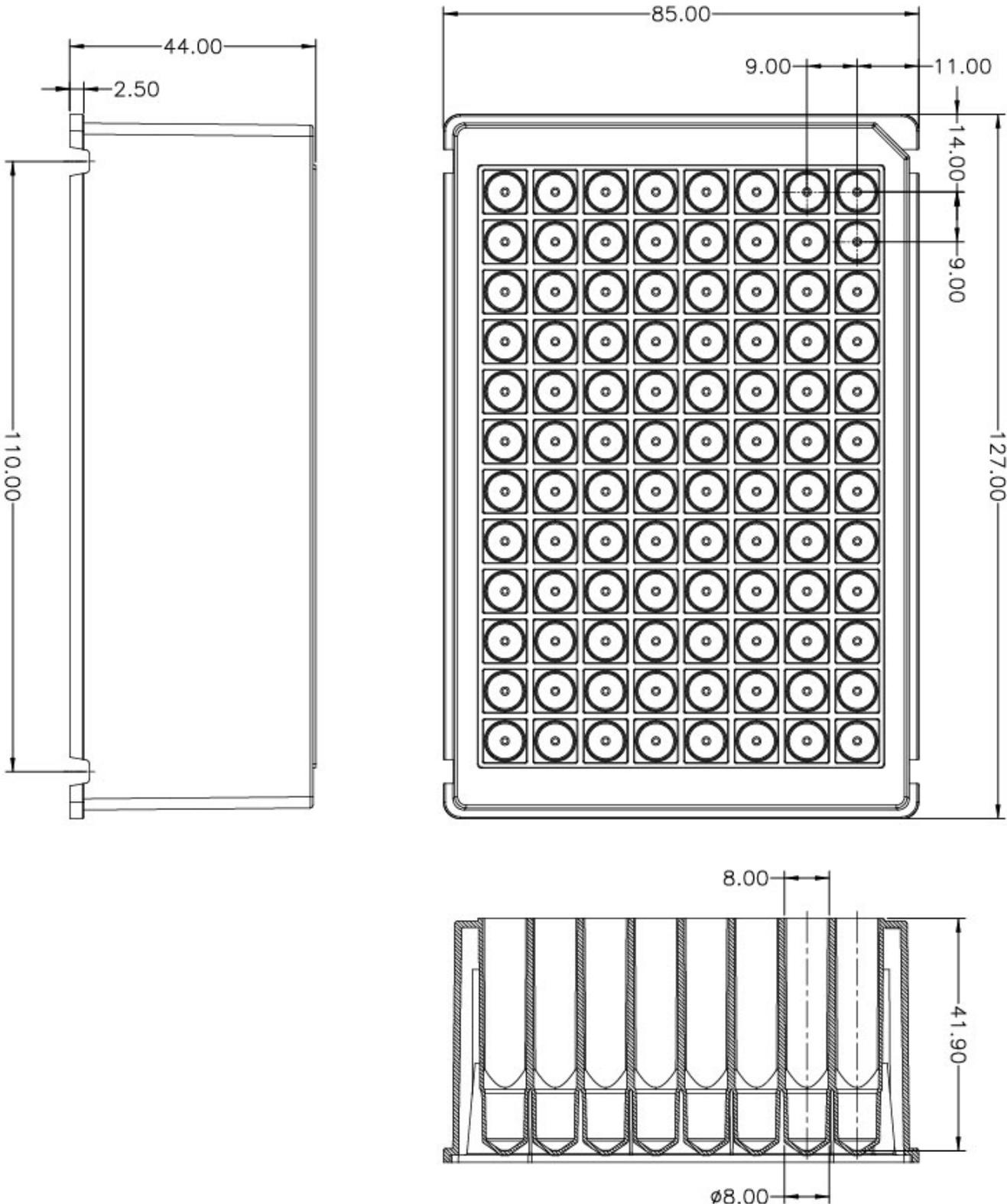
96-tip Plastic Comb



0.5 mL 96-Deep Well Plate



2.0 mL 96-Deep Well Plate



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