

For Agarose gel electrophoresis

# Agarose Kanto Series



Kanto Reagents



## Features

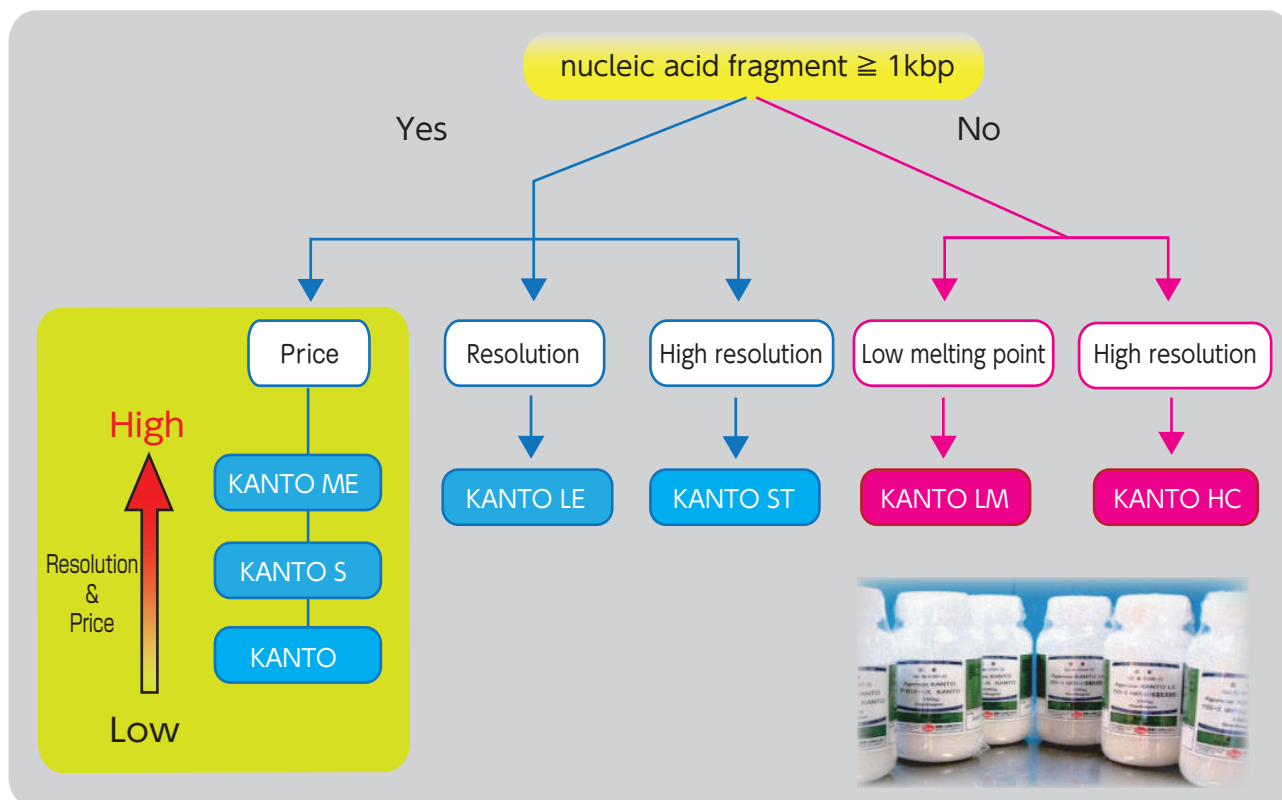
- Easy to use
- Low cost and High quality

## Product Information

| Product No. | Product Name                                                  | Grade               | Package Size |
|-------------|---------------------------------------------------------------|---------------------|--------------|
| 01097-23    | Agarose KANTO                                                 | for electrophoresis | 100 g        |
| 01097-79    |                                                               |                     | 1 kg         |
| 01095-23    | Agarose KANTO S                                               | for electrophoresis | 100 g        |
| 01095-79    |                                                               |                     | 1 kg         |
| 01088-23    | Agarose KANTO ME<br>(Medium electroendosmosis)                | for electrophoresis | 100 g        |
| 01088-79    |                                                               |                     | 1 kg         |
| 01098-23    | Agarose KANTO LE<br>(Low electroendosmosis)                   | for electrophoresis | 100 g        |
| 01098-79    |                                                               |                     | 1 kg         |
| 01089-23    | Agarose KANTO HC<br>(Small nucleic acid fragment $\leq$ 1kbp) | for electrophoresis | 100 g        |
| 01089-79    |                                                               |                     | 1 kg         |
| 01096-96    | Agarose KANTO LM<br>(Low melting point)                       | for electrophoresis | 50 g         |
| 01096-08    |                                                               |                     | 500 g        |
| 01090-23    | Agarose KANTO ST<br>(High gel strength)                       | for electrophoresis | 100 g        |
| 01090-79    |                                                               |                     | 1 kg         |

# Kanto Reagents

## How to Select



| Product Name     | Features                                               |
|------------------|--------------------------------------------------------|
| Agarose KANTO    | The lowest cost & popular type for routine use.        |
| Agarose KANTO S  | Standard type for routine use.                         |
| Agarose KANTO ME | Middle electroendosmosis type for various analysis.    |
| Agarose KANTO LE | Low electroendosmosis type for high accuracy analysis. |
| Agarose KANTO HC | High solubility type for small molecules analysis.     |
| Agarose KANTO LM | Low melting point type for gel extraction.             |
| Agarose KANTO ST | High gel strength type for large molecules analysis.   |

## Specification

|                                  | KANTO       | KANTO S     | KANTO ME      | KANTO LE      | KANTO HC  | KANTO LM  | KANTO ST      |
|----------------------------------|-------------|-------------|---------------|---------------|-----------|-----------|---------------|
| Product No.                      | 01097-23    | 01095-23    | 01088-23      | 01098-23      | 01089-23  | 01096-96  | 01090-23      |
| Gel Strength(g/cm <sup>2</sup> ) | 900 ~ 1,400 | 900 ~ 1,200 | 1,200 ~ 1,700 | 1,200 ~ 1,500 | 800 ~ 900 | 400 ~ 600 | 1,800 ~ 2,300 |
| Gelling pont(°C)                 | 36 ~ 40     | 37 ~ 40     | 36 ~ 42       | 36 ~ 38       | 36 ~ 42   | 28 ~ 33   | 37 ~ 43       |
| Melting point(°C)                | 87 ~ 94     | 82 ~ 89     | 82 ~ 95       | 84 ~ 92       | 82 ~ 90   | 70 ~ 75   | 87 ~ 94       |
| Electroendosmosis(-Mr)           | Max. 0.3    |             | Max. 0.2      | Max. 0.1      |           |           | Max. 0.2      |
| Sulfate(%)                       | Max. 0.3    |             | Max. 0.2      | Max. 0.1      |           | Max. 0.2  |               |

## Technical Tips

◎:Best    ○:better    △:Possible

|                                 | KANTO     | KANTO S | KANTO ME | KANTO LE  | KANTO HC  | KANTO LM  | KANTO ST  |
|---------------------------------|-----------|---------|----------|-----------|-----------|-----------|-----------|
| Concentration for gel formation | 1.0 ~ 2.0 |         |          |           | 1.0 ~ 4.0 | 0.5 ~ 4.0 | 0.5 ~ 2.0 |
| Range of Separation(kbp)        | 0.2 ~ 30  |         | 0.1 ~ 30 | 0.05 ~ 30 | 0.01 ~ 20 | 0.1 ~ 20  | 1 ~ 200   |
| Staining by the blue pigment*1  | △         | ○       | ◎        |           |           |           |           |
| Extraction of DNA from gel      | ○         |         | ◎        |           |           |           |           |
| Blotting                        | ○         |         | ◎        |           |           |           |           |
| Solubility*2                    | Max. 70   | Max. 90 |          |           |           |           | Max. 70   |

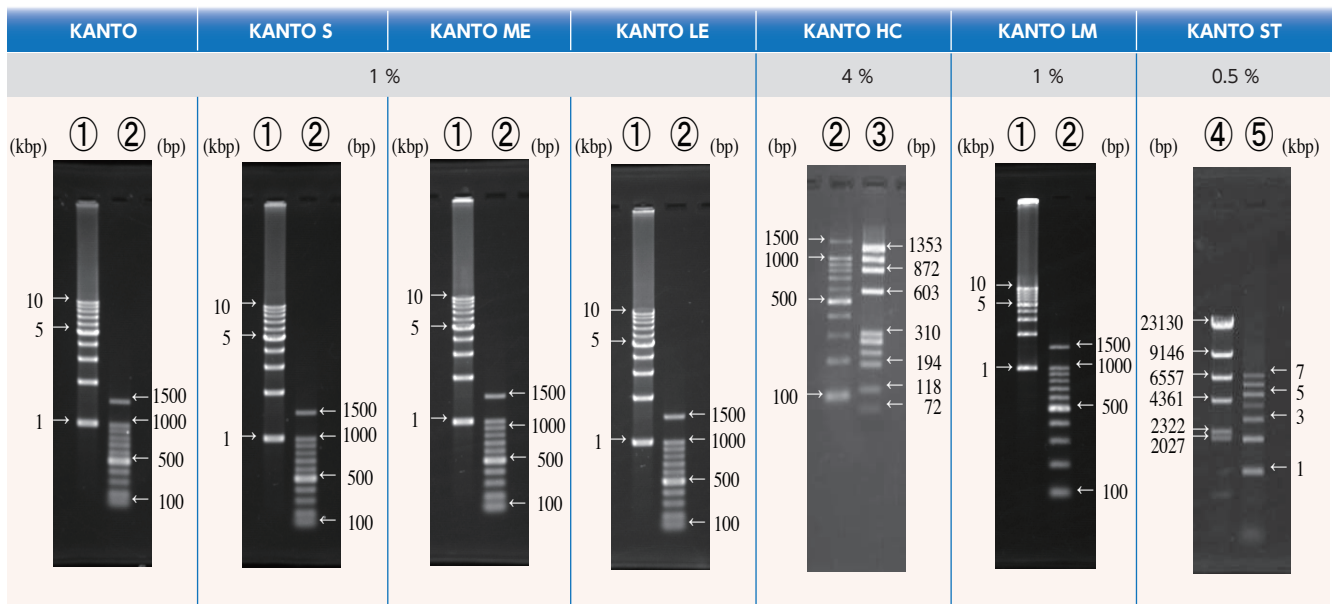
\* 1. Identified a background of the gel staining by ViewaBlue™ Stain KANTO.

\* 2. Agarose Solubility (%) = (The gel strength when you boil three times by a microwave oven/The gel strength when you completely dissolved it) ×100

## Applications

Using each agarose, these electrophoresis banding patterns are on the same condition. (TAE/100V/30min)

- ①1 kbp Ladder (1 kbp ~ 10 kbp)    ②100 bp Ladder (100 bp ~ 1kbp,1.5 kbp)    ③*phi*X174 *Hae* III digest  
 ④λ-*Hind* III Digest    ⑤1 kbp Ladder (1 kbp ~ 7 kbp)



## Related Products

### Buffers

| Product No. | Product Name    | Grade               | Package size |
|-------------|-----------------|---------------------|--------------|
| 46509-79    | 10 × TAE Buffer | for electrophoresis | 1 L          |
| 46508-79    | 50 × TAE Buffer | for electrophoresis | 1 L          |
| 46510-79    | 10 × TBE Buffer | for electrophoresis | 1 L          |

## Related Products

### Materials

| Product No. | Product Name                                                     | Grade                      | Package size |
|-------------|------------------------------------------------------------------|----------------------------|--------------|
| 40326-08    | 2-Amino-2-hydroxymethyl-1,3-propanediol (Tris)                   | for life science           | 500 g        |
| 40326-84    |                                                                  |                            | 15 kg        |
| 14097-00    | Disodium dihydrogen ethylenediamine tetraacetate dihydrate(EDTA) | Guaranteed reagent for JIS | 500 g        |
| 01021-00    | Acetic acid                                                      | Guaranteed reagent for JIS | 500 mL       |

### Staining solutions

| Product No. | Product Name              | Grade               | Package size |
|-------------|---------------------------|---------------------|--------------|
| 14575-43    | Ethidium bromide solution | for electrophoresis | 10 mL        |
| 44045-08    | ViewaBlue™ Stain KANTO    | for electrophoresis | 500 mL       |

### Loading buffer

| Product No. | Product Name              | Grade               | Package size |
|-------------|---------------------------|---------------------|--------------|
| 24080-96    | 6×Loading buffer          | for electrophoresis | 2 mL × 6     |
| 24079-96    | 6×Loading buffer orange G | for electrophoresis | 2 mL × 6     |



**KANTO CHEMICAL CO., INC.**  
REAGENT DIVISION

East Muromachi Mitsui BLDG, 2-1, Nihonbashi Muromachi 2-chome,  
Chuo-ku, Tokyo, 103-0022, JAPAN

Telephone +81-3-6214-1092

Telefax +81-3-3241-1053

<http://www.kanto.co.jp>

E-mail: [kanto-61@gms.kanto.co.jp](mailto:kanto-61@gms.kanto.co.jp)