**EASYPREP®**

EASYPREP® System is a liquid-based cytology specimen collection, preservation and automated slide preparation system that produces standardized thinlayer slides with cervical cytology specimens and other non-gynecologic cytology specimens.

<table>
<thead>
<tr>
<th>Dimension</th>
<th>1300mm(W) x 800mm(D) x 1450mm(H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>450 Kg</td>
</tr>
<tr>
<td>Operation</td>
<td>Full Automation</td>
</tr>
<tr>
<td>Principle</td>
<td>Sedimentation</td>
</tr>
<tr>
<td>Quickness</td>
<td>64T/H (512T/1day, 1 person)</td>
</tr>
<tr>
<td>Circle of smear</td>
<td>15mm</td>
</tr>
<tr>
<td>Certifications</td>
<td>KFDA, CE</td>
</tr>
<tr>
<td>Ancillary test</td>
<td>Possible</td>
</tr>
</tbody>
</table>

**EASYPREP® Test Kit**

**PRESERVATIVE SOLUTION**

1. GYN(Gynecological specimen) - EZ01 / 17ml x 32ea/box

2. NGL(Non-Gynecological Liquid) - EZL01 / 15ml x 32ea/box

3. NGM(Non-Gynecological Mucous) - EZM01 / 15ml x 32ea/box

4. NGP(Non-Gynecological Punctuation) - EZP01 / 15ml x 32ea/box

**Urine sampling container (250ml)** - EZL02 / 10ml x 16ea/box
**Conventional Pap smear vs Liquid-based Pap test**

<table>
<thead>
<tr>
<th>Conventional Pap smear</th>
<th>VS</th>
<th>Liquid-based Pap test</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Conventional Smear slide" /></td>
<td>VS</td>
<td><img src="image" alt="Liquid-based Pap test" /></td>
</tr>
<tr>
<td><img src="image" alt="×40" /></td>
<td><img src="image" alt="×40" /></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="×100" /></td>
<td><img src="image" alt="×100" /></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="×400" /></td>
<td><img src="image" alt="×400" /></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>Conventional Pap smear</th>
<th>Liquid-based Pap test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stratified cell and crowding phenomenon</td>
<td>About 70-80%</td>
<td>Monolayer</td>
</tr>
<tr>
<td>Cell Distribution</td>
<td>Cell Loss Ratio</td>
<td>Reading</td>
</tr>
<tr>
<td>Hard to read the cells due to blood and mucus substance</td>
<td>0% (All cells can be kept in the preservative solution)</td>
<td>Easy to read the cells by separating excessive obscuring materials (blood and mucus)</td>
</tr>
<tr>
<td>Can be changed if the cells do not fixated immediately</td>
<td>Format</td>
<td>Can be kept in preservative solution</td>
</tr>
<tr>
<td>The specimen can not be reused after smear</td>
<td>Reproducibility</td>
<td>The specimen in the preservative solution can be used within the term of validity</td>
</tr>
<tr>
<td>Recollect patient specimen</td>
<td>Re-examination</td>
<td>Available for additional tests (e.g. HPV test) with the collected cells left</td>
</tr>
</tbody>
</table>

**REAGENT**

1. Gradient density reagent ........ EZ02, 1L
2. Suspension buffer ............... EZ03, 1L
3. Fixative solution ............... EZ04, 1L
4. Rinse solution ............... EZ05, 1L

**CONSUMABLES**

1. Coated slide glass ........ EZ06, 64ea/box
2. Slide chamber ........ EZ07, 64ea/pack
3. 5ml Tip ........ EZ09, 200ea×2/box
4. Centrifuge tube ........ EZ10, 200ea/box
5. Brush ........ EZ11, 10ea/pack
6. Vial plug ........ EZ12, 64ea/pack
- Touch Screen 10.4” TFT LCD Display
- Operating option: GYN, Non-GYN, GYN + Non-GYN

- Slide Plate Module: Min 4, Max 64 Slides

- Waste Tray

- Vial Holder Module: Min 4, Max 64 vials

- Arm module: aspiration, dispensing, clamping, tip jigging
**EASYPREP® Process**

1. Sampling
2. Dispensing specimen
3. Moving to Centrifuge
4. Smearing & Washing
5. Smear Completion

★ Option
1. Barcode module
2. Staining module

**Ancillary Test - Molecular Diagnostic System**

- **HPV genotyping**

1. Sample Collection
2. HybREAD480®
3. MolecuTech REBA HPV-ID®
Slide Atlas

GYN (Gynecological Specimen)

Normal
Normal
ASCUS
ASCUS
LSIL
LSIL
HSIL
HSIL
SCC
SCC
Candida
Candida
Lactobacillus
Clue cell
Actinomyces
Trichomonas

Non-GYN (Non-Gynecological Specimen)

Body fluid
Body fluid
Body fluid
Body fluid
Bronchial washing
Sputum
Sputum
Breast
Thyroid
Thyroid
Urine
Urine
**Journal, Abstract**

1. **Journal**: Cytological Evaluation and REBA HPV-ID HPV testing of Newly Developed Liquid-Based Cytology, EASYPREP
   
   
   *The Korean Journal of Pathology 2013; 47: 265-274*


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**EASYPREP® Features**

- **High Cellularity**
  - By adopting sedimentation and centrifuge method / No cell loss

- **Automation**
  - Total walk-away system: the world first processor with a built-in centrifuge

- **Select Mode**
  - Both GYN and Non-GYN tests are possible
  - Various options are available to smear specific samples

- **Customization**
  - Easy adjustment of the parameter in accordance with laboratory requirement

- **Clarity**
  - Proper separation of mucus, inflammation cell and supernatants
  - Cell shape and structure (morphology) are well maintained
  - Clinically significant cells are evenly distributed for an easier reading

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**EASYPREP® Intellectual Property Rights**

<table>
<thead>
<tr>
<th>Patent No.</th>
<th>Description</th>
<th>Date</th>
<th>Issuing organization</th>
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<tbody>
<tr>
<td>1 10-2013-0099000</td>
<td>Slide chamber for smearing cells</td>
<td>2013.08.21</td>
<td>Korea</td>
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<tr>
<td>2 10-2013-0124160</td>
<td>Automatic cell smearing system &amp; control</td>
<td>2013.10.17</td>
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</table>

<table>
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<tr>
<th>Trade Mark No.</th>
<th>Mark No.</th>
<th>Mark Name</th>
<th>Class</th>
<th>Date</th>
<th>Issuing organization</th>
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<td>EASYPREP</td>
<td>05</td>
<td>2013.08.21</td>
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<td>2013.10.17</td>
<td>Korea</td>
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**Certificate of New Excellent Technology (NET)**

- **Title of Technology**: Automatic smear technology of Liquid based cytology technique based on sedimentation method using automatic tilting, clamping and algorithm for self-positioning of the centrifuge.
- **Organization**: Minister of Health and Welfare Republic of Korea

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**EASYPREP® Reference**

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Full Automated Liquid Based Cytology System