

[برگشت \(/Panel/Labs/Answers/47998\)](#)

چاپ

دوره پنجاه و سوم زمستان 1404

## M1 Results

## باکتری جدا شده از کشت ادرار بیمار

|               |            |                           |
|---------------|------------|---------------------------|
| کد نمونه 1579 | EQAP-18421 | آزمایشگاه آزمایشگاه آرامش |
|---------------|------------|---------------------------|

|                     |   |
|---------------------|---|
| تشخیص صحیح          | ✓ |
| تشخیص نیمه صحیح     | ● |
| تشخیص آزمایشگاه شما | ➔ |

## جدول شماره 1

| انتخاب شما | باکتری گزارش شده                              | تعداد تشخیص | درصد تشخیص | تشخیص |
|------------|-----------------------------------------------|-------------|------------|-------|
| ➔          | Enterobacter aerogenes (Klebsiella aerogenes) | 374         | %46.52     | ✓     |
|            | Klebsiella pneumoniae subsp. pneumoniae       | 112         | %13.93     |       |
|            | Enterobacter spp.                             | 71          | %8.83      | ●     |
|            | Klebsiella spp.                               | 46          | %5.72      |       |
|            | Enterobacter cloacae                          | 42          | %5.22      | ●     |
|            | Serratia marcescens                           | 41          | %5.10      |       |
|            | Escherichia coli                              | 14          | %1.74      |       |
|            | Not Reported                                  | 14          | %1.74      |       |
|            | Klebsiella pneumoniae subsp. ozaenae          | 12          | %1.49      |       |
|            | Serratia spp.                                 | 10          | %1.24      |       |
|            | Citrobacter freundii                          | 10          | %1.24      |       |
|            | Citrobacter spp.                              | 6           | %0.75      |       |
|            | Klebsiella oxytoca                            | 5           | %0.62      |       |
|            | Enterobacter gergoviae                        | 5           | %0.62      | ●     |
|            | Citrobacter diversus (koseri)                 | 4           | %0.50      |       |
|            | Klebsiella pneumoniae subsp. rhinoscleromatis | 3           | %0.37      |       |

| انتخاب شما | باکتری گزارش شده                        | تعداد تشخیص | درصد تشخیص | تشخیص |
|------------|-----------------------------------------|-------------|------------|-------|
|            | Acinetobacter spp.                      | 3           | %0.37      |       |
|            | Enterococcus spp.                       | 3           | %0.37      |       |
|            | Staphylococcus aureus                   | 3           | %0.37      |       |
|            | Proteus mirabilis                       | 2           | %0.25      |       |
|            | Acinetobacter baumannii (Saccharolytic) | 2           | %0.25      |       |
|            | Escherichia coli, inactive              | 2           | %0.25      |       |
|            | Kingella spp                            | 2           | %0.25      |       |
|            | Pseudomonas aeruginosa                  | 2           | %0.25      |       |
|            | Providencia stuartii                    | 2           | %0.25      |       |
|            | Citrobacter amalonaticus                | 1           | %0.12      |       |
|            | Proteus vulgaris                        | 1           | %0.12      |       |
|            | Shigella sonnei (serogroup D)           | 1           | %0.12      |       |
|            | Aeromonas spp.                          | 1           | %0.12      |       |
|            | Pseudomonas spp.                        | 1           | %0.12      |       |
|            | Enterobacter amnigenus 2                | 1           | %0.12      | ●     |
|            | Achromobacter spp.                      | 1           | %0.12      |       |
|            | Enterococcus avium                      | 1           | %0.12      |       |
|            | Streptococcus spp.                      | 1           | %0.12      |       |
|            | Serratia liquefaciens                   | 1           | %0.12      |       |
|            | Hafnia alvei                            | 1           | %0.12      |       |
|            | Moraxella catarrhalis                   | 1           | %0.12      |       |
|            | Staphylococcus epidermidis              | 1           | %0.12      |       |
|            | Stenotrophomonas maltophilia            | 1           | %0.12      |       |

## جدول شماره 2

| درصد  | تعداد |                     | درصد  | تعداد |                                       |
|-------|-------|---------------------|-------|-------|---------------------------------------|
| 47.34 | 374   | تشخیص های درست      |       | 951   | نمونه های فرستاده شده                 |
| 15.06 | 119   | تشخیص های نیمه درست | 84.54 | 804   | جوابهای دریافتی (تعداد موارد ثبت شده) |
| 37.59 | 297   | تشخیص های اشتباه    | 98.26 | 790   | جوابهای دارای تشخیص                   |
|       |       |                     | 1.74  | 14    | جوابهای بدون تشخیص                    |

## جدول شماره 3

| پاسخ شما | نام تست                               | تعداد استفاده | درصد استفاده | نتایج                | نتیجه صحیح | تعداد گزارش         | درصد گزارش                        | صحیح |
|----------|---------------------------------------|---------------|--------------|----------------------|------------|---------------------|-----------------------------------|------|
|          | ADH (Arginine dihydrolyse)            | 38            | %4.73        | Pos<br>Neg           | Neg        | 9<br>29             | %23.68<br>%76.32                  | ✓    |
|          | Adonitol fermentation                 | 2             | %0.25        | Neg                  |            | 2                   | %100.00                           |      |
|          | Ampicillin Susceptibility Test        | 9             | %1.12        | R<br>S               |            | 6<br>3              | %66.67<br>%33.33                  |      |
|          | Bacitracin (0.04-U)                   | 7             | %0.87        | R                    |            | 7                   | %100.00                           |      |
|          | Bacitracin 0.04 U Susceptibility Test | 4             | %0.50        | R                    |            | 4                   | %100.00                           |      |
|          | Bacitracin 10 U Susceptibility Test   | 2             | %0.25        | R                    |            | 2                   | %100.00                           |      |
|          | Bacitracin Susceptibility Test        | 6             | %0.75        | S<br>R               |            | 2<br>4              | %33.33<br>%66.67                  |      |
|          | BGA (Brilliant Green Agar)            | 23            | %2.86        | 2+<br>3+<br>1-       |            | 4<br>18<br>1        | %17.39<br>%78.26<br>%4.35         |      |
|          | BHI Agar (Brain Heart Infusion Agar)  | 14            | %1.74        | 2+<br>3+             |            | 3<br>11             | %21.43<br>%78.57                  |      |
|          | BSA (Bismuth Sulfite Agar)            | 6             | %0.75        | 3+<br>2+             |            | 5<br>1              | %83.33<br>%16.67                  |      |
|          | Carbenicillin Susceptibility Test     | 1             | %0.12        | R                    |            | 1                   | %100.00                           |      |
|          | Catalase Test                         | 152           | %18.91       | Both<br>Neg<br>Pos   |            | 3<br>19<br>130      | %1.97<br>%12.50<br>%85.53         |      |
|          | Cephalothin Susceptibility Test       | 2             | %0.25        | R                    |            | 2                   | %100.00                           |      |
|          | CHA (Chocolate Agar)                  | 162           | %20.15       | 1-<br>1+<br>2+<br>3+ |            | 1<br>1<br>15<br>145 | %0.62<br>%0.62<br>%9.26<br>%89.51 |      |

| باسخ شما | نام تست                                  | تعداد استفاده | درصد استفاده | نتایج                | نتیجه صحیح | تعداد گزارش          | درصد گزارش                         | صحیح |
|----------|------------------------------------------|---------------|--------------|----------------------|------------|----------------------|------------------------------------|------|
| ➔        | Citrate (Simmons) (C)                    | 742           | %92.29       | Neg<br>Both<br>Pos   | Pos        | 31<br>5<br>706       | %4.18<br>%0.67<br>%95.15           | ✓    |
|          | Coagulase Test / Slide (clumping factor) | 8             | %1.00        | Pos<br>Neg           |            | 1<br>7               | %12.50<br>%87.50                   |      |
|          | Coagulase Test / Tube                    | 4             | %0.50        | Neg<br>Pos           |            | 3<br>1               | %75.00<br>%25.00                   |      |
|          | Colistin Susceptibility Test             | 1             | %0.12        | S                    |            | 1                    | %100.00                            |      |
|          | Colony on TCBS agar                      | 1             | %0.12        | Yellow               |            | 1                    | %100.00                            |      |
|          | Colony Size > 0.5 mm at 24hrs            | 3             | %0.37        | Pos                  |            | 3                    | %100.00                            |      |
|          | D-Glucose, acid                          | 50            | %6.22        | Pos                  | Pos        | 50                   | %100.00                            | ✓    |
|          | D-Glucose, gas                           | 35            | %4.35        | Neg<br>Pos           | Pos        | 2<br>33              | %5.71<br>%94.29                    | ✓    |
| ➔        | D-Mannitol fermentation                  | 18            | %2.24        | Neg<br>Pos<br>Both   | Pos        | 1<br>16<br>1         | %5.56<br>%88.89<br>%5.56           | ✓    |
|          | D-Mannose fermentation                   | 3             | %0.37        | Pos                  |            | 3                    | %100.00                            |      |
| ➔        | DNase (25° / 35° C)                      | 111           | %13.81       | Neg<br>Pos           | Neg        | 100<br>11            | %90.09<br>%9.91                    | ✓    |
|          | D-Sorbitol fermentation                  | 2             | %0.25        | Pos                  |            | 2                    | %100.00                            |      |
|          | D-Xylose fermentation                    | 1             | %0.12        | Pos                  |            | 1                    | %100.00                            |      |
|          | EMB (Eosin Methylene Blue agar)          | 697           | %86.69       | 3+<br>2+<br>1+<br>1- |            | 605<br>72<br>16<br>4 | %86.80<br>%10.33<br>%2.30<br>%0.57 |      |
| ➔        | Esculin hydrolysis                       | 17            | %2.11        | Pos<br>Neg           | Pos        | 15<br>2              | %88.24<br>%11.76                   | ✓    |

| صحيح | درصد گزارش                                                    | تعداد گزارش                        | نتيجه صحيح | نتايج                                                                                                     | درصد استفاده | تعداد استفاده | نام تست                          | پاسخ شما |
|------|---------------------------------------------------------------|------------------------------------|------------|-----------------------------------------------------------------------------------------------------------|--------------|---------------|----------------------------------|----------|
|      | %100.00                                                       | 3                                  |            | S                                                                                                         | %0.37        | 3             | Furazolidone                     |          |
|      | %100.00                                                       | 1                                  |            | S                                                                                                         | %0.12        | 1             | Furazolidone Susceptibility Test |          |
| ✓    | %1.82<br>%20.00<br>%78.18                                     | 5<br>55<br>215                     | Pos        | Both<br>Neg<br>Pos                                                                                        | %34.20       | 275           | GAS / (TSI)                      | →        |
|      | %25.00<br>%75.00                                              | 1<br>3                             |            | Pos<br>Neg                                                                                                | %0.50        | 4             | Gelatin hydrolysis (22° / 35° C) |          |
|      | %100.00                                                       | 1                                  |            | Neg                                                                                                       | %0.12        | 1             | Germ Tube Test                   |          |
|      | %100.00                                                       | 1                                  |            | 3+                                                                                                        | %0.12        | 1             | GN broth                         |          |
| ✓    | %85.11<br>%1.20<br>%0.53<br>%0.53<br>%11.84<br>%0.66<br>%0.13 | 640<br>9<br>4<br>4<br>89<br>5<br>1 | G- Bacilli | G- Bacilli<br>G- Cocci<br>G- Cocci, in Cha<br>G+ Bacilli<br>G- Coccobacilli<br>G+ Cocci<br>G+, in Cluster | %93.53       | 752           | Gram Stain                       | →        |
|      | %100.00                                                       | 1                                  |            | Pos                                                                                                       | %0.12        | 1             | Growth at 42°C                   |          |
|      | %20.00<br>%80.00                                              | 1<br>4                             |            | Pos<br>Neg                                                                                                | %0.62        | 5             | Growth in 6.5% NaCl broth        |          |
| ✓    | %97.82<br>%2.18                                               | 404<br>9                           | Neg        | Neg<br>Pos                                                                                                | %51.37       | 413           | H2S / (TSI)                      | →        |
|      | %16.67<br>%83.33                                              | 1<br>5                             |            | 2+<br>3+                                                                                                  | %0.75        | 6             | HEA (Hektoen Enteric Agar)       |          |
|      | %28.57<br>%71.43                                              | 2<br>5                             |            | Pos<br>Neg                                                                                                | %0.87        | 7             | Hemolysis ( Non )                |          |
|      | %100.00                                                       | 1                                  |            | Pos                                                                                                       | %0.12        | 1             | Hemolysis (Alpha)                |          |
|      | %40.00<br>%60.00                                              | 2<br>3                             |            | Pos<br>Neg                                                                                                | %0.62        | 5             | Hemolysis (Beta)                 |          |

| صحيح | درصد گزارش                         | تعداد گزارش         | نتیجه صحيح | نتایج                         | درصد استفاده | تعداد استفاده | نام تست                                     | پاسخ شما |
|------|------------------------------------|---------------------|------------|-------------------------------|--------------|---------------|---------------------------------------------|----------|
|      | %100.00                            | 1                   |            | Pos                           | %0.12        | 1             | Hippurate hydrolysis Test                   |          |
| ✓    | %2.38<br>%97.62                    | 1<br>41             | Pos        | Neg<br>Pos                    | %5.22        | 42            | Hydrolysis of Esculin/<br>Bile Esculin Agar | ➔        |
| ✓    | %95.73<br>%3.99<br>%0.28           | 672<br>28<br>2      | Neg        | Neg<br>Pos<br>Both            | %87.31       | 702           | Indole ( I )                                | ➔        |
|      | %100.00                            | 3                   |            | Pos                           | %0.37        | 3             | KOH (3%) String Test                        |          |
| ✓    | %87.96<br>%12.04                   | 95<br>13            | Pos        | Pos<br>Neg                    | %13.43       | 108           | Lactose fermentation                        | ➔        |
|      | %25.00<br>%75.00                   | 1<br>3              |            | Neg<br>Pos                    | %0.50        | 4             | L-Arabinose fermentation                    |          |
| ✓    | %0.98<br>%88.78<br>%10.24          | 2<br>182<br>21      | Pos        | Both<br>Pos<br>Neg            | %25.50       | 205           | LDC (Lysine decarboxylase)                  | ➔        |
| ✓    | %82.72<br>%0.37<br>%15.81<br>%1.10 | 225<br>1<br>43<br>3 | k/k        | k/k<br>R/A<br>K/A<br>K/K H2S+ | %33.83       | 272           | LIA                                         | ➔        |
|      | %100.00                            | 1                   |            | Pos                           | %0.12        | 1             | L-Rhamnose fermentation                     |          |
|      | %1.29<br>%3.88<br>%84.05<br>%10.78 | 3<br>9<br>195<br>25 |            | 1-<br>1+<br>3+<br>2+          | %28.86       | 232           | MacConkey Agar                              | ➔        |
|      | %100.00                            | 11                  |            | Pos                           | %1.37        | 11            | Malonate utilization                        |          |
|      | %68.97<br>%31.03                   | 20<br>9             |            | Pos<br>Neg                    | %3.61        | 29            | Mannitol Salt Agar                          |          |
| ✓    | %1.87<br>%85.65<br>%12.48          | 12<br>549<br>80     | Neg        | Both<br>Neg<br>Pos            | %79.73       | 641           | Methyl red (MR)                             | ➔        |

| صحيح | درصد گزارش                 | تعداد گزارش      | نتیجه صحيح | نتایج                                             | درصد استفاده | تعداد استفاده | نام تست                        | پاسخ شما |
|------|----------------------------|------------------|------------|---------------------------------------------------|--------------|---------------|--------------------------------|----------|
|      | %9.09<br>%6.06<br>%84.85   | 3<br>2<br>28     |            | 2+<br>1+<br>3+                                    | %4.10        | 33            | MHA (Mueller Hinton Agar)      |          |
| ✓    | %20.00<br>%2.46<br>%77.54  | 130<br>16<br>504 | Pos        | Neg<br>Both<br>Pos                                | %80.85       | 650           | Motility                       | ➔        |
|      | %83.33<br>%16.67           | 25<br>5          |            | Pos<br>Neg                                        | %3.73        | 30            | Motility (25°C )               |          |
|      | %75.00<br>%25.00           | 3<br>1           |            | 1-<br>3+                                          | %0.50        | 4             | MSA (Mannitol Salt Agar)       |          |
|      | %100.00                    | 1                |            | Pos                                               | %0.12        | 1             | myo-Inositol fermentation      |          |
|      | %83.33<br>%16.67           | 5<br>1           |            | 3+<br>1+                                          | %0.75        | 6             | NA (Nutrient Agar)             |          |
|      | %100.00                    | 3                |            | Pos                                               | %0.37        | 3             | Nitrate reduction              |          |
|      | %66.67<br>%33.33           | 8<br>4           |            | S<br>R                                            | %1.49        | 12            | Novobiocin                     |          |
|      | %33.33<br>%66.67           | 2<br>4           |            | R<br>S                                            | %0.75        | 6             | Novobiocin Susceptibility Test |          |
| ✓    | %18.31<br>%81.69           | 13<br>58         | Pos        | Neg<br>Pos                                        | %8.83        | 71            | ODC (Ornithine decarboxylase)  |          |
|      | %28.57<br>%66.67<br>%4.76  | 6<br>14<br>1     |            | Oxidizer<br>Fermenter<br>Nonoxidizer(Nonutilizer) | %2.61        | 21            | O-F Test / Glucose             |          |
|      | %18.18<br>%18.18<br>%63.64 | 2<br>2<br>7      |            | Nonoxidizer(Nonutilizer)<br>Oxidizer<br>Fermenter | %1.37        | 11            | O-F Test / Lactose             |          |
|      | %25.00<br>%50.00<br>%25.00 | 1<br>2<br>1      |            | Nonoxidizer(Nonutilizer)<br>Fermenter<br>Oxidizer | %0.50        | 4             | O-F Test / Maltose             |          |

| صحيح | درصد گزارش                 | تعداد گزارش    | نتیجه صحيح | نتایج                                 | درصد استفاده | تعداد استفاده | نام تست                             | پاسخ شما |
|------|----------------------------|----------------|------------|---------------------------------------|--------------|---------------|-------------------------------------|----------|
|      | %40.00<br>%60.00           | 2<br>3         |            | Fermenter<br>Oxidizer                 | %0.62        | 5             | O-F Test / Mannitol                 |          |
|      | %33.33<br>%66.67           | 1<br>2         |            | Fermenter<br>Oxidizer                 | %0.37        | 3             | O-F Test / Xylose                   |          |
| ✓    | %7.60<br>%1.20<br>%91.20   | 19<br>3<br>228 | Pos        | Neg<br>Both<br>Pos                    | %31.09       | 250           | ONPG test                           |          |
|      | %100.00                    | 4              |            | R                                     | %0.50        | 4             | Optochin                            |          |
|      | %100.00                    | 3              |            | R                                     | %0.37        | 3             | Optochin<br>Susceptibility Test     |          |
|      | %10.00<br>%10.00<br>%80.00 | 1<br>1<br>8    |            | 1-<br>1+<br>3+                        | %1.24        | 10            | Other                               |          |
| ✓    | %92.15<br>%7.85            | 270<br>23      | Neg        | Neg<br>Pos                            | %36.44       | 293           | Oxidase Test                        | ➔        |
| ✓    | %98.44<br>%1.56            | 63<br>1        | Neg        | Neg<br>Pos                            | %7.96        | 64            | PAD (Phenylalanine<br>deaminase)    |          |
|      | %84.21<br>%5.26<br>%10.53  | 16<br>1<br>2   |            | Red<br>Brown<br>Green                 | %2.36        | 19            | Pigment 1                           |          |
|      | %11.11<br>%77.78<br>%11.11 | 1<br>7<br>1    |            | Yellow-Green<br>Orange-Pink<br>Yellow | %1.12        | 9             | Pigment 2                           |          |
|      | %66.67<br>%33.33           | 8<br>4         |            | Purple<br>Violet                      | %1.49        | 12            | Pigment 3                           |          |
|      | %50.00<br>%50.00           | 1<br>1         |            | R<br>S                                | %0.25        | 2             | Polymyxine B<br>Susceptibility Test |          |
|      | %100.00                    | 1              |            | Pos                                   | %0.12        | 1             | Pyocyanin                           |          |
|      | %50.00<br>%50.00           | 1<br>1         |            | Neg<br>Pos                            | %0.25        | 2             | Raffinose<br>fermentation           |          |

| باسخ شما | نام تست                                            | تعداد استفاده | درصد استفاده | نتایج                | نتیجه صحیح | تعداد گزارش          | درصد گزارش                           | صحیح |
|----------|----------------------------------------------------|---------------|--------------|----------------------|------------|----------------------|--------------------------------------|------|
| ➔        | SBA (Sheep Blood Agar)                             | 710           | %88.31       | 1-<br>3+<br>1+<br>2+ |            | 4<br>634<br>19<br>53 | %0.56<br>%89.30<br>%2.68<br>%7.46    |      |
|          | Serogrouping or Serotyping Tests                   | 3             | %0.37        | Yes                  |            | 3                    | %100.00                              |      |
|          | SF (Selenite-F broth)                              | 1             | %0.12        | 3+                   |            | 1                    | %100.00                              |      |
|          | SMAC (Sorbitol-MacConkey agar)                     | 5             | %0.62        | 2+<br>3+             |            | 2<br>3               | %40.00<br>%60.00                     |      |
|          | Sorbose fermentation/acid production               | 1             | %0.12        | Pos                  |            | 1                    | %100.00                              |      |
|          | SS (Salmonella-Shigella agar)                      | 4             | %0.50        | 2+<br>3+             |            | 2<br>2               | %50.00<br>%50.00                     |      |
| ➔        | Sucrose fermentation                               | 25            | %3.11        | Pos<br>Neg           | Pos        | 22<br>3              | %88.00<br>%12.00                     | ✓    |
|          | Swarming colonies                                  | 4             | %0.50        | Neg<br>Pos           |            | 2<br>2               | %50.00<br>%50.00                     |      |
|          | Sxt                                                | 44            | %5.47        | S<br>R               |            | 41<br>3              | %93.18<br>%6.82                      |      |
|          | SXT Susceptibility Test                            | 27            | %3.36        | R<br>S               |            | 1<br>26              | %3.70<br>%96.30                      |      |
|          | TCBS (Thiosulfate Citrate Bile Salts Sucrose agar) | 8             | %1.00        | 3+<br>1+<br>2+<br>1- |            | 1<br>1<br>1<br>5     | %12.50<br>%12.50<br>%12.50<br>%62.50 |      |
|          | Thioglycolate broth / Medium                       | 2             | %0.25        | 3+                   |            | 2                    | %100.00                              |      |
|          | TSA (Trypticase Soy Agar)                          | 5             | %0.62        | 3+<br>2+             |            | 2<br>3               | %40.00<br>%60.00                     |      |
|          | TSB (Trypticase Soy Broth)                         | 11            | %1.37        | 2+<br>3+             |            | 1<br>10              | %9.09<br>%90.91                      |      |

| پاسخ شما | نام تست                               | تعداد استفاده | درصد استفاده | نتایج                                                                       | نتیجه صحیح | تعداد گزارش                            | درصد گزارش                                                    | صحیح |
|----------|---------------------------------------|---------------|--------------|-----------------------------------------------------------------------------|------------|----------------------------------------|---------------------------------------------------------------|------|
| ➔        | TSI                                   | 747           | %92.91       | K/A H2S+<br>K/A Gas-<br>K/A Gas+<br>A/A H2S+<br>A/A Gas-<br>A/A Gas+<br>K/K | A/A Gas+   | 4<br>21<br>36<br>15<br>204<br>460<br>7 | %0.54<br>%2.81<br>%4.82<br>%2.01<br>%27.31<br>%61.58<br>%0.94 | ✓    |
| ➔        | Urea hydrolysis / (Agar)              | 646           | %80.35       | Both<br>Neg<br>Pos                                                          | Neg        | 27<br>454<br>165                       | %4.18<br>%70.28<br>%25.54                                     | ✓    |
|          | Vancomycin                            | 5             | %0.62        | S<br>R                                                                      |            | 4<br>1                                 | %80.00<br>%20.00                                              |      |
|          | Vancomycin Susceptibility Test        | 1             | %0.12        | R                                                                           |            | 1                                      | %100.00                                                       |      |
| ➔        | Voges-Proskauer (VP)                  | 568           | %70.65       | Both<br>Neg<br>Pos                                                          | Pos        | 4<br>90<br>474                         | %0.70<br>%15.85<br>%83.45                                     | ✓    |
|          | Voges-Proskauer (VP) / (25°C)         | 22            | %2.74        | Pos<br>Neg<br>Both                                                          |            | 17<br>4<br>1                           | %77.27<br>%18.18<br>%4.55                                     |      |
|          | XLD (Xylose Lysine Deoxycholate agar) | 41            | %5.10        | 1-<br>2+<br>3+<br>1+                                                        |            | 3<br>5<br>28<br>5                      | %7.32<br>%12.20<br>%68.29<br>%12.20                           |      |
|          | Yellow Pigment                        | 1             | %0.12        | Pos                                                                         |            | 1                                      | %100.00                                                       |      |