





Chemistry Laboratory Mission and Services Mission: Provide quality service, knowledge, support, and experience in an efficiently fashion to our internal and external customers assuring scientific, regulatory and professional excellence. Services and Scope: QC release testing of active pharmaceutical ingredients (API's), raw materials, excipients, in process samples, components and finished products. Chemical testing of complaint samples, technology projects and validations. Compendial chemical testing of water monitoring system. Provide technical and testing support to the network as a lead site. Management of the stability program; testing and reports. Management of laboratories equipment support (Calibrations and PM,s)

















6



Next Level in Visual Management

- Electronic visual management display
- Remote access from any computer in the network
- Trainings without leaving laboratory facilities
- Real time performance data evaluation
- Data archive for laboratory operation
- Color coding aligned with laboratory Roles

























| Efficiencies | Tak \$ |
|---|-----------------------|
| Area | Savings |
| Workload reduction | |
| Use PMH Std COA moisture value for system suitability – Reduce 20 standard moisture determination per month | TBD |
| Piperacillin Monohydrated reduce testing (from 9 to 2 tests) Content uniformity incorporation in moisture testing Saving of 6 vials per lot | \$140,169 \$71,120 |
| EDTA test mobile phase expiration date extension From freshly prepare to 10 days | \$5,400 |
| Sampling reduction | |
| Update sample quantity requirements | \$181,500 |
| Moisture test workload (from 9 to 3 samples per dryer) – Savings of 24 vials per lot | \$142,240 |
| Total | \$540,429 |
| | |

| Improvements & Efficience | es |
|--|--|
| Area Improve | ments |
| HPLC Integration workload HPLC template / LIMS – LACES continuing work Constituted uniformity incorporation in moisture testing Reduce conductivity test documentation Standardize mobile phase and adjust timing of mixture EDTA test mobile phase expiration date extension | 70% 90% 90% 50% 75% 75% |
| Improve scheduling process and utilization: | |
| Introduce visual scheduling board Optimise scheduling process | 54% |
| Total | 72% |
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Zosyn Chemistry Lean Lab Waste Elimination Reduction

Initiative

Waste Reduction

- Piperacillin Monohydrated reduce testing
- EDTA test mobile phase expiration date extension 50%
- Content uniformity incorporation in moisture testing • 36%
- Moisture test sample reduction (from 9 to 3 Vials) 67%
 - 10%

• 40%









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|-------------|------------------|-----------------------|-------------|---------------------------|--------------|--------------|----------|
| Role Number | | : | Zosyn Chemi | istry Laborator | ies Roles | | |
| 1 | Optical Rotation | ID-FTIR (PMH/Tazo) | ROI | Heavy Metals | тос | Conductivity | Nitrates |
| 2 | pН | Constituted | Color | Ethyl Acetate | TLC | Description | T |
| 3 | Moisture A | Moisture B | Moisture C | Moisture D | Uniformity | ON | SI |
| 4 | Visual Particles | HIAC | New HIAC | V | 5 | U | |
| 5 | Assay (Zosyn) | EDTA | Assay (PMH) | Related (CL115425/PMH) | Assay (Tazo) | ALC I | |
| 6 | Approvers | Metrics | Trends | APR's | | | |
| 7 | Supervisor | | | - | | | |
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| Finished Sample Receival | | | | | | | | | | | | |
|--------------------------|---|-----------------|------------------------|-------------------|----------|-----------|------------------------|------------------|------------|--|--|--|
| | # | Product Name | Lot Number | LIMS Sample Id | Received | Due Date | Expected Completion | Date Approved | Cycle Time | | | |
| | 1 | Zosyn EF | F8854-08-02-D63444 M/J | 239532 | 9/2/2009 | 9/12/2009 | 9/10/2009 | 9/10/2009 | 8 | | | |
| | 2 | Zosyn EF | F8854-08-02-D63447O/N | 240017 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 | | | |
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| | # | Product Name | Lot Number | LIMS Sample Id | Received | Due Date | Expected Completion | Date Approved | Cycle Time |
| | 1 | Zosyn EF | F8854-08-02-D63444 M/J | 239532 | 9/2/2009 | 9/12/2009 | 9/10/2009 | 9/10/2009 | 8 |
| | 2 | Zosyn EF | F8854-08-02-D63447O/N | 240017 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 |
| | 3 | Zosyn EF | F8855-08-03-D50412K/I | 239982 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 |
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| # | Product Name | Lot Number | LIMS Sample Id | Received | Due Date | Expected Completion | Date Approved | Cycle Time | |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | 239532 | 9/2/2009 | 9/12/2009 | 9/10/2009 | 9/10/2009 | 8 | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | 240017 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | 239982 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | 240395 | 9/4/2009 | 9/14/2009 | 9/10/2009 | 9/10/2009 | 6 | |
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| | Product | | LIMS | | | Expected | Date | |
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| # | Name | Lot Number | Sample Id | Received | Due Date | Completion | Approved | Cycle Time |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | 239532 | 9/2/2009 | 9/12/2009 | 9/10/2009 | 9/10/2009 | 8 |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | 240017 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | 239982 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | 240395 | 9/4/2009 | 9/14/2009 | 9/10/2009 | 9/10/2009 | 6 |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | 241904 | 9/8/2009 | 9/14/2009 | 9/11/2009 | 9/11/2009 | 3 |
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| | # | Product Name | Lot Number | LIMS Sample Id | Received | Due Date | Expected Completion | Date Approved | Cycle Time | |
| | 1 | Zosyn EF | F8854-08-02-D63444 M/J | 239532 | 9/2/2009 | 9/12/2009 | 9/10/2009 | 9/10/2009 | 8 | |
| | 2 | Zosyn EF | F8854-08-02-D63447O/N | 240017 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 | |
| | 3 | Zosyn EF | F8855-08-03-D50412K/I | 239982 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 | |
| | 4 | Zosyn EF | F8855-08-03-D50493R/P | 240395 | 9/4/2009 | 9/14/2009 | 9/10/2009 | 9/10/2009 | 6 | |
| | 5 | Zosyn EF | F8852-08-02-D50352 G/P | 241904 | 9/8/2009 | 9/14/2009 | 9/11/2009 | 9/11/2009 | 3 | |
| | 6 | Zosyn EF | F8852-08-02-D50014 N/K | 241834 | 9/8/2009 | 9/14/2009 | 9/11/2009 | 9/11/2009 | 3 | |
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| | # | Product Name | Lot Number | LIMS Sample Id | Received | Due Date | Expected Completion | Date Approved | Cycle Time |
| | 1 | Zosyn EF | F8854-08-02-D63444 M/J | 239532 | 9/2/2009 | 9/12/2009 | 9/10/2009 | 9/10/2009 | 8 |
| | 2 | Zosyn EF | F8854-08-02-D63447O/N | 240017 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 |
| | 3 | Zosyn EF | F8855-08-03-D50412K/I | 239982 | 9/3/2009 | 9/13/2009 | 9/10/2009 | 9/10/2009 | 7 |
| | 4 | Zosyn EF | F8855-08-03-D50493R/P | 240395 | 9/4/2009 | 9/14/2009 | 9/10/2009 | 9/10/2009 | 6 |
| | 5 | Zosyn EF | F8852-08-02-D50352 G/P | 241904 | 9/8/2009 | 9/14/2009 | 9/11/2009 | 9/11/2009 | 3 |
| - | 6 | Zosyn EF | F8852-08-02-D50014 N/K | 241834 | 9/8/2009 | 9/14/2009 | 9/11/2009 | 9/11/2009 | 3 |
| 1 | 7 | Zosyn EF | F8855-08-03-D50727 O/B | 241881 | 9/8/2009 | 9/14/2009 | 9/11/2009 | In Process | 3 |
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| | Finished | | | | | | | | | |
| # | Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | | | | | | | | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | | | | | | | | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | | | | | | | | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | | | | | | | | |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | | | | | | | | |
| 6 | Zosyn EF | F8852-08-02-D50014 N/K | | | | | | | | |
| 7 | Zosyn EF | F8855-08-03-D50727 O/B | | | | | | | | |
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| # | Finished Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By | |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | | | Scientist A | | Scientist A | | | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | | | Scientist A | | Scientist A | | | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | | | Scientist A | | Scientist A | | | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | | | Scientist A | | Scientist A | | | |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | | | Scientist A | | Scientist A | | | |
| 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | | | Scientist A | | Scientist A | | | |
| 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | | | Scientist A | | Scientist A | | | |
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| # | Finished Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By | |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | | Scientist A | | | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | | Scientist A | | | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | | Scientist A | | | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | | Scientist A | | | |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | | Scientist A | | | |
| 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | | Scientist A | | | |
| 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | | Scientist A | | | |
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| | # | Finished Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By | |
| | 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| | 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| | 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| | 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| | 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| | 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| | 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
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| # | Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | |
| 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | |
| 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | |
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| # | Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | By | |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
| 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | | |
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| | # | Finished Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By | |
| | 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| | 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| | 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| | 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| | 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| | 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| | 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
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| # | Finished Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By | |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
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| # | Finished Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By | |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
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| | | Sa | m | ble | Ap | Dro | ova | | | | |
|---|-----------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|--|
| # | Finished Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By | |
| 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
| 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor | |
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| 1 | 1 | | | | In | Process | | | | | |
| | | | | | Ready | to Check by | | | | | |
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| | | | Sa | m | ole | Ap | bro | ova | | | |
|---|---|-----------------------------|------------------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|----------------|
| | # | Finished Product Name | Lot Number | Assay | GC | TLC | pH, Const. | Uniformity | Color | Water | Approved By |
| | 1 | Zosyn EF | F8854-08-02-D63444 M/J | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor |
| | 2 | Zosyn EF | F8854-08-02-D63447O/N | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor |
| | 3 | Zosyn EF | F8855-08-03-D50412K/I | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor |
| | 4 | Zosyn EF | F8855-08-03-D50493R/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor |
| | 5 | Zosyn EF | F8852-08-02-D50352 G/P | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor |
| | 6 | Zosyn EF | F8852-08-02-D50014 N/K | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor |
| | 7 | Zosyn EF | F8855-08-03-D50727 O/B | Scientist A | Scientist B | Scientist B | Scientist A | Scientist C | Scientist A | Scientist C | Supervisor |
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