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Setup Guide on the Molecular Devices SpectraMax® M5/M5e Microplate Reader

Setup for GeneBLAzer[®] Assay on SpectraMax[®] M5/M5e Microplate Reader with SoftMax[®] Pro 6 Software

The Molecular Devices SpectraMax[®] M5/M5e Microplate Reader was tested for compatibility with Life Technologies GeneBLAzer[®] assays. The following document is intended to demonstrate setup of this instrument. These settings are also valid for the SpectraMax M3/M4, FlexStation[®] 3 Multi-Mode Microplate Reader and Gemini Fluorescence Microplate Reader with bottom-read fluorescence detection.

For more detailed information and technical support of Life Technologies assays, please call 1-800-955-6288 and enter extension 40266 or email <u>drugdiscoverytech@lifetech.com</u>.

For more detailed information and technical support of Molecular Devices instruments or software, please contact Molecular Devices at 1-800-635-5577 or <u>www.moleculardevices.com</u>.



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A. Recommended Optics

| | Wavelength (nm) | Wavelength selection |
|-------------------|-----------------|----------------------|
| Excitation | 410/9 | Monochromator |
| Emission 1 | 460/15 | Monochromator |
| Emission 2 | 530/15 | Monochromator |
| Emission 1 Cutoff | 435 | Filter |
| Emission 2 Cutoff | 515 | Filter |



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B. Instrument Setup:

1. Open SoftMax[®] Pro 6 software. Click on "Protocol Manager" to open the Protocol Library. Within the "Reporter Assays" folder, locate the "GeneBLAzer" protocol and click to open.



2. Click on the microplate icon in the Navigation Tree on the left side of the screen. Click on the Settings icon either in the toolbar at the top of the screen...



... or in the plate section header.





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3. This opens the Settings window. Fluorescence read mode and Endpoint read type are already selected in the pre-configured protocol. Enter wavelength settings as shown below:

| 🤗 Settings | | | | | |
|-------------------------|----------------|---------------|------------|---------------------|----------|
| Read Mode | ABS | FL FL | LUM | TRF | FP FP |
| Read Type | () Endpoint | Kinetic | Spectrum | Well Scan | |
| Category | | | | | |
| Wavelengths | | Wavelength Se | ttings | | |
| Plate Type Read Area | | | Number | of wavelength pairs | 2 |
| Shake | | | Excitation | Emission Cutoff | Emission |
| More Settings | | | | Auto Cutoff | |
| | | Lm1 | 410 nm | 435 🗸 | 460 nm |
| | | Lm2 | 410 nm | 515 🗸 | 530 nm |

4. Choose the desired plate type, using the upper dropdown menu to choose plate format (96 or 384 wells) and the "Select Specific" menu to choose the specific plate type.

| Category | | | |
|----------------|---------------------|---------------------------------|---|
| Wavelengths | Plate Type Settings | | |
| Plate Type | | | |
| Read Area | Plate Format | 384 Wells 🗸 | |
| PMT and Optics | Select Specific | 384 Well Standard cirbtm | ~ |
| Shake | | 384 Well Standard opaque | |
| More Settings | Edit Plate | 384 Well Greiner blk/clr | |
| - | Demove Plate | 384 Well Greiner clear | |
| | Kentove Flate | 384 Well Costar wht/clr | |
| | | 384 Well Costar blk/clr | 2 |
| | | 384 Well Costar black | |
| | | 384 Well Falcon blk/clr | |
| | | 384 Well Corning flatbtm | |
| | | 384 Well Corning clr/flatbtm | |
| | | 384 Well Corning low vol/rndbtm | |



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5. Now select the area of the plate to read.

| Category | |
|--|--|
| Wavelengths | Read Area Settings |
| Plate Type | 384 Well Costar blk/cir 🛛 🗹 Select All |
| Read Area | |
| PMT and Optics Shake More Settings | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 12 22 23 24 A O |
| | Word mornadori |



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6. In the PMT and Optics category, the PMT Gain setting "Automatic" is recommended, as it enables the widest range of sample brightness to be detected in a single plate read without the need for manual PMT gain adjustment.

The number of Flashes per read may be adjusted. Fewer flashes enable faster plate reads, while more flashes enable higher performance.

Make sure the "Read from Bottom" box is checked.

| Category | | |
|----------------|-------------------------|---|
| Wavelengths | PMT and Optics Settings | |
| Plate Type | | |
| Read Area | PMT Gain Automatic 💌 | ٢ |
| PMT and Optics | Flashes per read 10 | |
| Shake | | |
| More Settings | | |
| | Read From Bottom 🔽 | |

7. In the category "More Settings", the settings shown below should be used.

| Category | | | | |
|----------------|----------------|-----|-------|----|
| Wavelengths | More Settings | | | |
| Plate Type | C. C. Charles | | | |
| Read Area | Calibrate | | | |
| PMT and Optics | Carriage Speed | No | ormal | ~ |
| Shake | Read Order | Co | lumn | ~ |
| More Settings | Settling Time | | | |
| | Durat | ion | 100 | ms |

8. To read the plate, click the green "Read" button at the top of the screen.





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9. After the plate is read, data will appear in the plate section:

| Expt1 | | | | Pla | te1 | | | | | | | | | Q | (| | Σ | Ξ | Ş | | | | Q | 4 | ٨ |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|
| | | | | | | | | | | | _ | | _ | | | | | | | | | | | | |
| | | | | | | | | | | | Р | late: | L | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| А | 52.4 | 48.1 | 47.7 | 83.5 | 83.7 67.6 | 84.7 | 774 | 745 | 732 | 758 | 753 | 703 | 519 | 273 | 219 | 206 | 244 | 65.3 | 82.4 | 82.8 | 47.6 | 47.3 | 47.4 | 46.5 | |
| в | 48.1 | 48.1 | 47.3 | 83.9 | 82.0 | 81.9 | 876 | 94.5 847 | 94.2 784 | 711 | 90.2 823 | 90.0 783 | 555 | 312 | 347 | 225 | 301 | 65.3 | 81.8 | 83.1 | 47.4 | 47.1 | 47.0 | 47.3 | |
| 5 | 7.76 | 7.69 | 7.75 | 67.4 | 68.5 | 67.9 | 108 | 98.5 | 95.2 | 95.2 | 94.0 | 99.1 | 112 | 133 | 132 | 136 | 157 | 12.5 | 66.5 | 66.3 | 7.81 | 7.74 | 7.65 | 7.71 | |
| С | 54.7 8.83 | 47.6 7.77 | 51.9 8.20 | 83.9 68.2 | 83.8 69.0 | 84.3 69.2 | 972 118 | 889 107 | 787 100 | 696 99.2 | 839 111 | 886 98.9 | 663 127 | 333 125 | 294 145 | 257 148 | 332 163 | 102 13.9 | 83.0 66.6 | 83.1 66.0 | 47.7 7.76 | 50.0 7.81 | 47.3 7.74 | 46.3 7.49 | |
| D | 55.5 | 53.1 | 47.8 | 82.7 | 83.3 | 84.3 | 10 | 871 | 965 | 968 | 10 | 898 | 682 | 380 | 337 | 274 | 315 | 65.6 | 82.7 | 82.4 | 47.7 | 47.5 | 47.7 | 47.5 | |
| - | 8.05 | 8.09 | 7.76 | 68.0 83.4 | 68.1 83.1 | 68.7 83.5 | 118 | 109 984 | 109 | 118 | 986 | 113 | 128 | 136 | 295 | 276 | 349 | 12.8 67.3 | 66.9 87.4 | 67.3 83.0 | 7.79 48 7 | 7.80 | 7.67 46 9 | 7.54 | |
| E | 7.87 | 7.85 | 7.93 | 67.7 | 67.8 | 68.6 | 121 | 110 | 117 | 116 | 113 | 107 | 132 | 141 | 146 | 151 | 175 | 12.8 | 66.5 | 67.3 | 7.83 | 7.77 | 7.70 | 7.78 | |
| F | 61.9 | 47.5 | 47.9 | 82.0 | 82.6 | 82.9 | 10 | 10 | 993 | 914 | 953 | 988 | 668 | 355 | 285 | 347 | 342 | 68.1 | 82.2 | 82.7 | 47.2 | 47.9 | 48.1 | 50.7 | |
| | 8.12 | /./9 | /./5 | 66.8 e4 0 | 6/.9 e7 7 | 6/.6 c2 7 | 126 | 11/ | 113 | 101 | 100 | 112 | 106 | 136 | 201 | 212 | 168 | 13.0 | 66.U | 05.5 | 1.12 | /.82 | /.93 | 7.96 | |
| G | 7.53 | 7.75 | 7.96 | 66.8 | 67.4 | 67.3 | 129 | 113 | 122 | 114 | 118 | 111 | 132 | 148 | 144 | 150 | 176 | 12.7 | 66.7 | 65.4 | 7.46 | 7.62 | 7.55 | 7.61 | |
| н | 46.2 | 48.1 | 51.0 | 84.8 | 86.0 | 82.9 | 10 | 962 | 10 | 855 | 892 | 939 | 745 | 426 | 349 | 314 | 352 | 66.2 | 83.0 | 81.6 | 46.7 | 47.1 | 46.4 | 47.5 | |
| | 7.64 46.0 | 7.72 | 7.89 47.8 | 83.3 | 67.2 81.2 | 89.0 | 122 | 976 | 116 | 124 | 121 | 109 | 128 | 156 | 393 | 333 | 1/0 | 12./ 66.6 | 66.1 83.6 | 65.4 81.9 | 7.59 46.4 | /.// 46.8 | 7.69 47 3 | 46.9 | |
| I | 7.57 | 8.19 | 7.86 | 66.8 | 67.4 | 67.0 | 125 | 110 | 113 | 110 | 103 | 111 | 133 | 146 | 173 | 168 | 187 | 12.7 | 66.9 | 65.4 | 7.53 | 7.73 | 7.50 | 7.60 | |
| 1 | 46.1 | 49.8 | 47.8 | 82.1 | 81.8 | 81.3 | 10 | 10 | 10 | 10 | 990 | 10 | 801 | 409 | 364 | 347 | 395 | 65.5 | 82.3 | 81.6 | 48.1 | 46.4 | 46.6 | 47.4 | |
| 1 | 7.33 | 8.09 | 7.90 | 67.1 | 67.1 | 66.7 | 123 | 118 | 122 | 116 | 104 | 110 | 136 | 147 | 159 | 168 | 171 | 12.7 | 65.9 | 65.4 | 7.66 | 7.59 | 7.70 | 7.43 | |
| K | 46.1 7.42 | 47.6 7.60 | 47.8 7.51 | 80.5 65.3 | 82.8 67.5 | 80.4 66.0 | 10 | 901 98.7 | 10 | 960 104 | 10 | 10 112 | 125 | 418 139 | 408 170 | 352 162 | 393 172 | 63.2 12.2 | 82.9 66.1 | 86.9 | 46.3 7.52 | 191 13.1 | 54.1 7.69 | 7.49 | |
| | 46.1 | 103 | 53.6 | 85.8 | 81.7 | 82.8 | 10 | 942 | 10 | 10 | 10 | 10 | 734 | 455 | 358 | 352 | 391 | 62.7 | 83.0 | 80.1 | 46.6 | 45.5 | 46.7 | 45.5 | |
| L | 7.65 | 9.05 | 8.15 | 66.4 | 66.8 | 66.3 | 120 | 110 | 121 | 119 | 113 | 114 | 127 | 156 | 156 | 165 | 175 | 12.2 | 66.7 | 64.4 | 7.50 | 7.44 | 7.55 | 7.34 | |
| М | 46.6 7.51 | 85.6 8.43 | 54.3 8.07 | 81.9 66.0 | 81.4 67.7 | 80.4 66.2 | 10 117 | 983 117 | 10 111 | 986 111 | 10 116 | 997 116 | 802 141 | 409 145 | 393 167 | 349 167 | 393 176 | 108 13.5 | 80.8 64.4 | 80.6 65.0 | 46.0 7.62 | 45.9 7.49 | 135 10.7 | 45.3 7.42 | |
| N | 46.5 | 46.8 | 57.4 | 81.8 | 82.0 | 81.1 | 10 | 983 | 10 | 10 | 10 | 997 | 828 | 467 | 408 | 374 | 412 | 63.7 | 81.6 | 80.8 | 46.9 | 45.6 | 46.8 | 45.7 | |
| | 7.33 | 92.6 | 8.44 | 67.2 81.2 | 67.5 82.6 | 82.5 | 124 | 105 | 120 | 115 | 110 | 111 | 134 820 | 15/ | 165 430 | 157 390 | 164 403 | 12.2 63.2 | 66.4 87.5 | 64.9 81.6 | 7.66 48.6 | 7.55 46.1 | 7.61 46.3 | 46.1 | |
| 0 | 8.69 | 9.80 | 7.62 | 66.8 | 68.8 | 67.6 | 133 | 124 | 122 | 128 | 129 | 123 | 138 | 183 | 193 | 189 | 207 | 12.3 | 67.2 | 65.2 | 7.95 | 7.47 | 7.38 | 7.39 | |
| Р | 46.1 | 50.9 | 46.9 | 82.5 | 83.0 | 86.3 | 11 | 10 | 10 | 11 | 10 | 11 | 806 | 457 | 384 | 365 | 395 | 63.6 | 83.0 | 82.2 | 47.3 | 46.1 | 61.2 | 46.8 | |
| | 7.61 | 7.91 | 7.71 | 67.7 | 67.6 | 67.5 | 127 | 120 | 110 | 125 | 103 | 114 | 147 | 144 | 156 | 164 | 175 | 12.7 | 66.8 | 65.3 | 7.71 | 7.71 | 8.08 | 7.74 | |

10. To set up the template for data analysis, click on Template Editor icon in the top toolbar...



... or on the plate section header.





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11. Select wells and choose the template group you want to assign them to; click Assign. Repeat for each sample type.

| 💷 Те | mnl | ate | Edit | or | | | | | | | | | | | | | | | | | | | | | | |
|----------|--|------|-------|------|---------|----------|----|------|-------|----|----|-------|----|----|-----|----|----|------|------|-----|----|-----|--------|----|-----------------|-----|
| Select | elect wells, then add or select a group (or blank) and assign. | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 0 | | | _ | | | | | | | | ~ | _ | | | - | _ | | | Groups | |
| | ору | | Pas | te 1 | <u></u> | l | Cl | ear | | | | | | | Vie | w | 0 | Samp | le N | ame | 0 | Des | cripto | or | Add Edit Delete | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| Α | Uns | tim | _ | | | | | | | | | | | | | | | | | | | | | | ■Custom | |
| В | 01 | 01 | | | | - | - | | | | | | | | | | | | | | | | | | Unstimulated | |
| | 01 | 01 | - | | - | - | - | - | | | - | | | | | | | | | | | | | - | Stimulated | |
| E | 01 | 01 | | | - | \vdash | - | | | | | | | | | | | | _ | | - | | | Η. | Background | |
| F | 01 | 01 | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| G | 01 | 01 | | | | | | | | | | | | | | | | | | | | | | | | |
| н | 01 | 01 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 01 | 01 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 01 | 01 | _ | | - | - | - | | - | - | - | | | | | | | | | | | | | - | | |
| ĸ | 01 | 01 | - | | - | - | - | - | - | | - | - | | | | | | | | | | | | - | | |
| M | 01 | 01 | | | - | \vdash | - | | | | - | | | | | | | | _ | | | | | Η. | | |
| N | 01 | 01 | | | | \vdash | | | | | | | | | | | | | | | | | | | | |
| 0 | 01 | 01 | | | | | | | | | | | | | | | | | | | | | | | | |
| Р | 01 | 01 | | | | | | | | | | | | | | | | | | | | | | | | |
| Assia | nmer | t Or | tion | | | | | | | | | | | | | | | | | | | | | | | |
| Blan | ks — | | | - | | | Un | tim | later | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P | late | Blank | | | | Sa | mple | 01 | | | | | | * | | | | | | | | | | | |
| | <u> </u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| | G | | 01- | | | | | | | | | | | | | | | | | | | | | | | |
| | G | roup | Blan | к | | | _ | | | _ | | | _ | | | | | | | | | | | | | |
| | | | | | | | | As | sign | | Se | eries | | | | | | | | | | | | | | |
| <u> </u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Print | | | | | | | | | | | | | | | | | | | | | | | | OK Can | cel |

Template with wells assigned to different template groups:

| 🎟 Te | mpl | ate | Edit | tor | | | | | | | | | | | | | | | | | | | | | | X |
|--------|-------|--------|-------|-------|------|--------|------|-------|------|--------|-------|-------|-------|------|-----|----|----|------|-------|-----|----|-----|------|-----|-----------------|---|
| Select | wells | s, the | en ac | dd or | sele | ct a g | grou | p (or | blan | ik) an | id as | sign. | | | | | | | | | | | | | | ? |
| | | | | | | | | | | | | | | | | | | | | | | | | | Groups | |
| | ору | | Pas | te 🔻 | | | Cle | ear | | | | | | | Vie | w | 0 | Samp | ole N | ame | 0 | Des | ript | or | Add Edit Delete | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| А | Unst | im | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09.5 | tim | ilate | d 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Bac | kgr | Custom | |
| В | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | Unstimulated | |
| С | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | Stimulated | |
| D | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | Background | |
| E | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | Dackground | |
| F | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| G | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| н | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| 1 | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| 1 | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| к | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| L | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| M | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| N | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| 0 | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |
| Р | 01 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 01 | 01 | | |



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12. After wells are assigned to template groups, data will populate group tables where analysis can be done:

| Navigation Tree | ۰ 🔊 | Do | ocument | Comparison | | _ | | _ | |
|--|-----|----|---------|---------------------|--------|--------|----------|---------|------------------|
| Expt1 Expt1 Plate1 Unstimulat Stimulated | | | Expt1 | 🔛 Stimu | ılated | | | 🚹 🍻 | , 1 8 |
| Background | | | Sample | Concentration nM | CV%465 | CV%535 | AvgRatio | SDratio | CVratio |
| | | | 0 | 1 100000.000 | 8.6 | 6.5 | 8.81 | 0.345 | 3.9 |
| | | | 0 | 2 25000.000 | 9.4 | 7.4 | 9.12 | 0.433 | 4.7 |
| | | | 0 | 3 6250.000 | 11.7 | 8.2 | 9.14 | 0.513 | 5.6 |
| | | | 0 | 4 1562.500 | 14.0 | 8.4 | 8.81 | 0.997 | 11.3 |
| | | | 0 | 5 390.625 | 9.9 | 8.4 | 9.28 | 0.877 | 9.5 |
| | | | 0 | 6 97.656 | 10.3 | 6.2 | 9.07 | 0.630 | 7.0 |
| | | | 0 | 7 24.414 | 12.4 | 8.8 | 5.61 | 0.469 | 8.4 |
| | | | 0 | 8 6.104 | 16.1 | 10.2 | 2.49 | 0.284 | 11.4 |
| | | | 0 | 9 1.526 | 16.3 | 10.9 | 1.93 | 0.258 | 13.4 |
| | | | 1 | 0 0.381 | 17.1 | 8.3 | 1.69 | 0.277 | 16.4 |



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C. Results



Concentration

Figure 1: GeneBLAzer® Assay. GeneBLAzer® assay performed using the Molecular Devices SpectraMax® M5 microplate reader and GeneBLAzer® MC3R CRE-*bla* CHO-K1 cell line stimulated with NDP- α -MSH. Z' = 0.74.