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Myeloperoxidase inhibitor AZD5904 enhances human sperm function in vitro

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| | AGE | DIAGNOSTIC SEMEN ANALYSIS | | | | | | CASA DATA | | | CELLS COUNTED | WBC COUNT |
|-------|-----|---------------------------|----------------------|--------------------|--------------------------|-----------------------|-----|----------------------|--------------------|--------------------------|---------------|-----------|
| | | VOLUME (ML) | CONCENTRATION (M/ML) | TOTAL MOTILITY (%) | PROGRESSIVE MOTILITY (%) | NORMAL MORPHOLOGY (%) | TZI | CONCENTRATION (M/ML) | TOTAL MOTILITY (%) | PROGRESSIVE MOTILITY (%) | | |
| R2905 | 35 | 3.3 | 31.5 | 51 | 45 | 1.5 | 1.3 | 7 | 71% | 57% | ≥200 | 1.26 |
| R2907 | 29 | 2.4 | 46.0 | 68.0 | 67.0 | 3.3 | 1.2 | 23 | 87 | 69 | ≥200 | 0.84 |
| R2909 | 49 | 2.5 | 35.6 | 59.0 | 49.0 | 2.8 | 1.2 | 5 | 63 | 52 | ≥200 | 0.89 |
| R2911 | 43 | 2.6 | 15.8 | 64 | 58 | 2.8 | 1.5 | 3 | 44% | 42% | <200 | 0.39 |
| R2913 | 32 | 2.6 | 92.0 | 54 | 48 | 2.8 | 1.2 | 17 | 79% | 55% | ≥200 | 0.93 |
| R2916 | 33 | 3.3 | 33.4 | 50 | 44 | 4.8 | 1.3 | 1 | 57% | 47% | <200 | 0.25 |
| R2917 | 30 | 3.9 | 50.0 | 54 | 48 | 3.5 | 1.3 | 1 | 54% | 45% | ≥200 | 0.39 |
| R2918 | 42 | 1.6 | 137.8 | 56 | 50 | 0.8 | 1.5 | 3 | 76% | 61% | ≥200 | 2.20 |
| R2919 | 38 | 1.9 | 48.0 | 53 | 49 | 1.8 | 1.4 | 1 | 77% | 67% | <200 | 0.69 |
| R2920 | 35 | 3.0 | 61.2 | 49 | 45 | 3.8 | 1.3 | 10 | 92% | 83% | ≥200 | 0.48 |
| R2922 | 40 | 2.6 | 78.5 | 58 | 52 | 0.0 | 1.4 | 16 | 89% | 75% | ≥200 | 1.04 |
| R2989 | 23 | 3.0 | 34.4 | 55.0 | 49.0 | 1.0 | 1.3 | 4 | 88 | 38 | ≥200 | 0.52 |
| R2990 | 27 | 3.2 | 204.0 | 68 | 60 | 4.8 | 1.2 | 74 | 96% | 74% | ≥200 | 4.08 |
| R2994 | 31 | 3.2 | 155.8 | 60 | 58 | 4.0 | 1.3 | 21 | 90% | 48% | ≥200 | 8.57 |
| R3003 | 24 | 6.2 | 22.8 | 46.0 | 38.0 | 6.2 | 1.3 | 26 | 89 | 68 | ≥200 | 0.23 |
| R3006 | 25 | 3.8 | 31.0 | 47.0 | 44.0 | 1.0 | 1.5 | 12 | 78 | 51 | ≥200 | 2.48 |
| R3007 | 29 | 4.8 | 75.0 | 53 | 47 | 2.8 | 1.3 | 33 | 94% | 73% | ≥200 | 0.56 |
| R3011 | 33 | 2.0 | 150.0 | 52.0 | 48.0 | 3.0 | 1.3 | 21 | 93 | 69 | ≥200 | 2.02 |
| R3012 | 32 | 4.7 | 86.2 | 44.0 | 32.0 | 2.8 | 1.3 | 18 | 57 | 29 | ≥200 | 1.72 |
| R3015 | 50 | 1.2 | 75.0 | 39.0 | 38.0 | 2.8 | 1.3 | 1 | 34 | 11 | <200 | 3.00 |
| R3017 | 39 | 2.6 | 216.0 | 42 | 20 | 4.8 | 1.2 | 21 | 57% | 36% | ≥200 | 4.32 |
| R3018 | 35 | 2.5 | 20.9 | 46 | 35 | 5.8 | 1.3 | 2 | 71% | 58% | ≥200 | 0.47 |
| R3021 | 42 | 4.1 | 112.0 | 53 | 48 | 6.3 | 1.2 | 47 | 73% | 38% | ≥200 | 1.68 |
| R3022 | 36 | 5.4 | 20.0 | 45 | 38 | 1.3 | 1.3 | 9 | 78% | 27% | ≥200 | 0.15 |
| R3029 | 34 | 4.1 | 27.6 | 59 | 54 | 4.5 | 1.3 | 32 | 94% | 71% | ≥200 | 0.90 |
| R3033 | 32 | 3.6 | 16.1 | 45 | 40 | 2.3 | 1.3 | 3 | 53% | 24% | ≥200 | 0.40 |
| R3034 | 30 | 4.3 | 21.8 | 50.0 | 36.0 | 3.5 | 1.3 | 6 | 53 | 31 | ≥200 | 0.11 |
| R3038 | 33 | 2.8 | 155.0 | 49.0 | 45.0 | 2.0 | 1.3 | 27 | 88 | 38 | ≥200 | 0.39 |
| R3039 | 41 | 2.1 | 33.0 | 39.0 | 32.0 | 1.8 | 1.3 | 2 | 46 | 42 | <200 | 0.25 |
| R3047 | 38 | 1.4 | 5.0 | 12 | 3 | 0.8 | 1.4 | 1 | 70% | 43% | <200 | 0.33 |
| R3048 | 27 | 2.3 | 20.1 | 60.0 | 54.0 | 3.8 | 1.1 | 2 | 87 | 68 | <200 | 0.10 |
| R3053 | 45 | 2.2 | 44.0 | 50 | 46 | 3.3 | 1.3 | 1 | 95% | 90% | ≥200 | 0.22 |
| R3054 | 31 | 3.3 | 29.6 | 56 | 49 | 1.0 | 1.4 | 1 | 50% | 28% | <200 | 0.30 |
| R3055 | 34 | 3.2 | 43.8 | 67 | 63 | 2.0 | 1.2 | 8 | 93% | 81% | ≥200 | 0.22 |
| R3066 | 33 | 2.1 | 89.5 | 54 | 56 | 3.0 | 1.3 | 12 | 86% | 42% | ≥200 | 1.12 |
| R3089 | 32 | 3.8 | 39.8 | 54.0 | 49.0 | 0.5 | 1.4 | 4 | 69 | 40 | ≥200 | 0.70 |
| R3091 | 24 | 3.5 | 73.2 | 53 | 47 | 2.5 | 1.3 | 15 | 61% | 35% | ≥200 | 1.83 |
| R3093 | 38 | 2.0 | 3.0 | 63.0 | 48.0 | 1.8 | 1.3 | 1 | 53 | 41 | <200 | 0.05 |
| R3105 | 42 | 2.3 | 14.2 | 71.0 | 64.0 | 3.8 | 1.2 | 3 | 84 | 74 | ≥200 | 0.10 |
| R3110 | 33 | 3.7 | 62.2 | 50 | 44 | 1.8 | 1.5 | 8 | 91% | 71% | ≥200 | 0.88 |
| R3111 | 30 | 5.3 | 19.2 | 66 | 60 | 1.5 | 1.3 | 2 | 28% | 16% | <200 | 0.04 |
| R3126 | 33 | 2.0 | 38.0 | 62 | 59 | 0.8 | 1.3 | 6 | 74% | 49% | <200 | 0.21 |
| R3140 | 34 | 3.0 | 4.0 | 23.0 | 16.0 | 0.3 | 1.5 | 1 | 25 | 8 | <200 | 0.01 |
| R3158 | 26 | 2.0 | 29.8 | 55.0 | 49.0 | 3.3 | 1.4 | 1 | 27 | 24 | <200 | 0.08 |
| R3623 | 38 | 2.2 | 6.0 | 44 | 31 | 1.3 | 1.4 | 3 | 88% | 57% | <200 | 0.12 |