

Figure S1. pH was measured for 10-12 days, as reported for fermentations of all yeast in this study. Results are reported as the mean of two biological replicates.

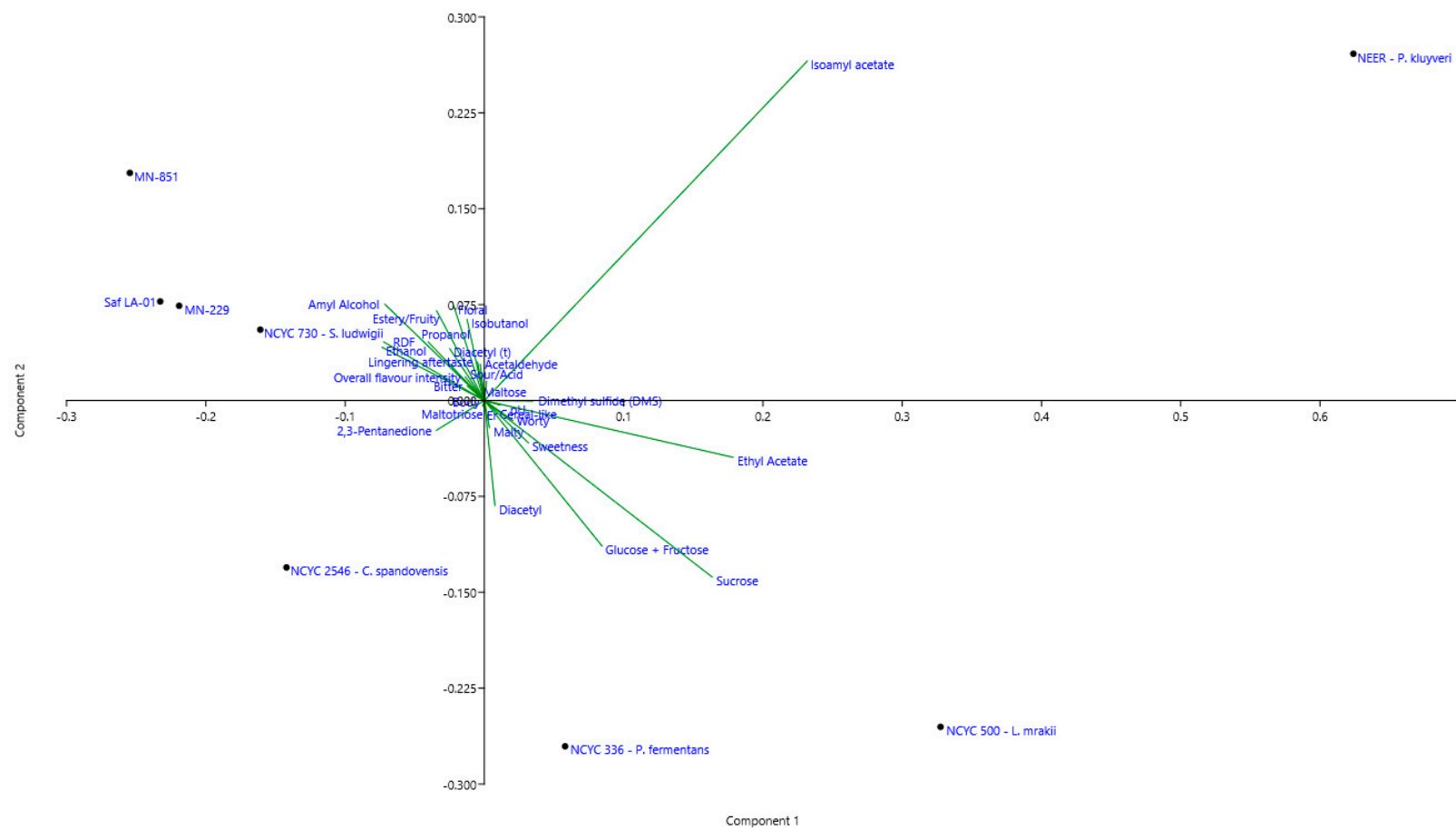


Figure S2. Scatter Plot analysis PCA. PC1(52.3%) vs PC2(20.2%).

Table S1. Spearman's P-values, highlighted at pink P-values below 0.05.

| | | Chemical composition | | | | | | | | | | | | | | | | Sensory analysis | | | | | | | | | | | | | | | | |
|---------------------------|------------------------|----------------------|-------|----------|------------|--------------|---------------|-----------------|----------|------------------|--------------|------------------------|--------------------|---------|---------|-------------|---------|---------------------------|---------------|--------|-------|-------|-------------|--------------|-----------|-----------|--------|-------|----------------------|-------|--|--|--|--|
| | Er (%m/m) | pH | RDF | Propanol | Isobutanol | Amyl Alcohol | Ethyl Acetate | Isoamyl acetate | Diacetyl | 2,3-Pentanedione | Acetaldehyde | Dimethyl sulfide (DMS) | Glucose + Fructose | Sucrose | Maltose | Maltotriose | Ethanol | Overall flavour intensity | Estery/Fruity | Floral | Worty | Malty | Cereal-like | Diacetyl (t) | Sweetness | Sour/Acid | Bitter | Body | Lingering aftertaste | | | | | |
| Sensory analysis | Er (%m/m) | 0.083 | 0.000 | 0.058 | 0.428 | 0.007 | 0.752 | 0.428 | 0.037 | 0.216 | 0.501 | 0.389 | 0.012 | 0.036 | 0.941 | 0.752 | 0.000 | 0.022 | 0.045 | 0.096 | 0.006 | 0.967 | 0.417 | 0.171 | 0.003 | 0.990 | 0.013 | 0.343 | 0.449 | | | | | |
| | pH | 0.083 | 0.069 | 0.299 | 0.582 | 0.267 | 0.243 | 0.115 | 0.840 | 0.037 | 0.582 | 0.267 | 0.273 | 0.036 | 0.448 | 0.882 | 0.069 | 0.037 | 0.045 | 0.299 | 0.019 | 0.587 | 0.182 | 0.160 | 0.042 | 0.471 | 0.161 | 0.055 | 0.227 | | | | | |
| | RDF | 0.000 | 0.069 | 0.083 | 0.083 | 0.462 | 0.005 | 0.703 | 0.462 | 0.058 | 0.267 | 0.752 | 0.267 | 0.019 | 0.036 | 0.829 | 0.977 | 0.000 | 0.011 | 0.023 | 0.083 | 0.002 | 0.988 | 0.363 | 0.120 | 0.009 | 0.990 | 0.032 | 0.384 | 0.410 | | | | |
| | Propanol | 0.058 | 0.299 | 0.083 | | 0.360 | 0.197 | 0.582 | 0.151 | 0.327 | 0.197 | 0.619 | 0.793 | 0.085 | 0.560 | 0.507 | 0.619 | 0.083 | 0.115 | 0.232 | 0.299 | 0.063 | 0.895 | 0.448 | 0.126 | 0.038 | 0.589 | 0.313 | 0.183 | 0.379 | | | | |
| | Isobutanol | 0.428 | 0.582 | 0.462 | 0.360 | | 0.171 | 0.935 | 0.665 | 0.216 | 0.327 | 0.462 | 0.501 | 0.185 | 0.911 | 0.206 | 0.977 | 0.462 | 0.501 | 0.850 | 0.619 | 0.585 | 0.363 | 0.654 | 0.277 | 0.550 | 0.260 | 0.410 | 0.615 | 0.743 | | | | |
| | Amyl Alcohol | 0.007 | 0.267 | 0.005 | 0.197 | 0.171 | | 0.536 | 0.619 | 0.046 | 0.840 | 0.793 | 0.115 | 0.060 | 0.089 | 0.487 | 0.619 | 0.005 | 0.083 | 0.184 | 0.267 | 0.041 | 0.940 | 0.389 | 0.079 | 0.084 | 0.381 | 0.041 | 1.000 | 1.000 | | | | |
| | Ethyl Acetate | 0.752 | 0.243 | 0.703 | 0.582 | 0.935 | 0.536 | | 0.022 | 0.360 | 0.882 | 0.083 | 0.028 | 0.849 | 0.875 | 0.299 | 0.058 | 0.703 | 0.752 | 0.891 | 0.536 | 0.504 | 0.692 | 0.736 | 0.404 | 0.736 | 0.808 | 0.794 | 0.692 | 0.794 | | | | |
| | Isoamyl acetate | 0.428 | 0.115 | 0.462 | 0.151 | 0.665 | 0.619 | 0.022 | | 0.536 | 0.197 | 0.327 | 0.299 | 0.964 | 0.827 | 0.067 | 0.360 | 0.462 | 0.582 | 0.850 | 0.752 | 0.313 | 0.924 | 0.871 | 0.990 | 0.363 | 0.646 | 0.743 | 0.255 | 0.887 | | | | |
| | Diacetyl | 0.037 | 0.840 | 0.058 | 0.327 | 0.216 | 0.046 | 0.360 | 0.536 | | 0.935 | 0.115 | 0.977 | 0.022 | 0.167 | 0.396 | 0.360 | 0.058 | 0.267 | 0.245 | 0.096 | 0.244 | 0.716 | 0.541 | 0.439 | 0.117 | 0.781 | 0.041 | 0.971 | 0.743 | | | | |
| | 2,3-Pentanedione | 0.216 | 0.037 | 0.267 | 0.197 | 0.327 | 0.840 | 0.882 | 0.197 | 0.935 | | 0.665 | 0.665 | 0.468 | 0.208 | 0.364 | 0.360 | 0.267 | 0.151 | 0.141 | 0.501 | 0.141 | 0.716 | 0.895 | 0.943 | 0.100 | 0.275 | 0.483 | 0.025 | 0.255 | | | | |
| | Acetaldehyde | 0.501 | 0.582 | 0.752 | 0.619 | 0.462 | 0.793 | 0.083 | 0.327 | 0.115 | 0.665 | | 0.096 | 0.363 | 0.702 | 0.364 | 0.037 | 0.752 | 0.882 | 0.891 | 0.703 | 0.942 | 0.801 | 0.587 | 0.729 | 0.550 | 0.735 | 0.449 | 0.971 | 0.830 | | | | |
| | Dimethyl sulfide (DMS) | 0.389 | 0.267 | 0.267 | 0.793 | 0.501 | 0.115 | 0.028 | 0.299 | 0.977 | 0.665 | 0.096 | | 0.629 | 0.399 | 0.989 | 0.037 | 0.267 | 0.389 | 0.603 | 0.840 | 0.244 | 0.852 | 0.233 | 0.062 | 0.566 | 0.507 | 0.379 | 0.971 | 0.928 | | | | |
| | Glucose + Fructose | 0.012 | 0.273 | 0.019 | 0.085 | 0.185 | 0.060 | 0.849 | 0.964 | 0.022 | 0.468 | 0.363 | 0.629 | | 0.074 | 0.841 | 0.285 | 0.019 | 0.030 | 0.030 | 0.008 | 0.031 | 0.570 | 0.459 | 0.160 | 0.004 | 0.579 | 0.016 | 0.238 | 0.141 | | | | |
| | Sucrose | 0.036 | 0.036 | 0.036 | 0.560 | 0.911 | 0.089 | 0.875 | 0.827 | 0.167 | 0.102 | 0.703 | 0.399 | 0.074 | | 0.762 | 0.702 | 0.036 | 0.036 | 0.036 | 0.113 | 0.048 | 0.494 | 0.048 | 0.442 | 0.036 | 0.905 | 0.027 | 0.286 | 0.348 | | | | |
| | Maltose | 0.941 | 0.448 | 0.829 | 0.507 | 0.206 | 0.487 | 0.299 | 0.967 | 0.396 | 0.364 | 0.364 | 0.989 | 0.841 | 0.762 | | 0.989 | 0.829 | 0.711 | 0.850 | 1.000 | 0.982 | 0.540 | 0.965 | 0.320 | 0.675 | 0.049 | 0.989 | 0.183 | 0.343 | | | | |
| | Maltotriose | 0.752 | 0.882 | 0.977 | 0.619 | 0.977 | 0.619 | 0.058 | 0.360 | 0.360 | 0.360 | 0.037 | 0.037 | 0.285 | 0.702 | 0.989 | | 0.977 | 0.703 | 0.464 | 0.243 | 0.942 | 0.564 | 0.756 | 0.623 | 0.379 | 0.233 | 0.617 | 0.290 | 0.227 | | | | |
| Ethanol | 0.000 | 0.069 | 0.000 | 0.083 | 0.462 | 0.005 | 0.703 | 0.462 | 0.058 | 0.267 | 0.752 | 0.267 | 0.019 | 0.036 | 0.829 | 0.977 | | 0.011 | 0.023 | 0.083 | 0.002 | 0.988 | 0.363 | 0.120 | 0.009 | 0.990 | 0.032 | 0.384 | 0.410 | | | | | |
| Overall flavour intensity | 0.022 | 0.037 | 0.011 | 0.115 | 0.501 | 0.083 | 0.752 | 0.582 | 0.267 | 0.151 | 0.882 | 0.389 | 0.030 | 0.036 | 0.711 | 0.703 | 0.011 | | 0.001 | 0.058 | 0.001 | 0.329 | 0.448 | 0.054 | 0.011 | 0.761 | 0.122 | 0.123 | 0.161 | | | | | |
| Estery/Fruity | 0.045 | 0.045 | 0.023 | 0.232 | 0.850 | 0.184 | 0.891 | 0.850 | 0.245 | 0.141 | 0.891 | 0.603 | 0.030 | 0.036 | 0.850 | 0.464 | 0.023 | 0.030 | 0.001 | | 0.010 | 0.004 | 0.530 | 0.283 | 0.114 | 0.017 | 0.390 | 0.139 | 0.084 | 0.042 | | | | |
| Floral | 0.096 | 0.299 | 0.083 | 0.299 | 0.619 | 0.267 | 0.536 | 0.752 | 0.096 | 0.501 | 0.703 | 0.840 | 0.008 | 0.113 | 1.000 | 0.243 | 0.083 | 0.058 | 0.010 | | 0.063 | 0.801 | 0.298 | 0.277 | 0.033 | 0.197 | 0.104 | 0.183 | 0.017 | | | | | |
| Worty | 0.006 | 0.019 | 0.002 | 0.063 | 0.585 | 0.041 | 0.504 | 0.313 | 0.244 | 0.141 | 0.942 | 0.244 | 0.031 | 0.048 | 0.982 | 0.942 | 0.002 | 0.001 | 0.004 | 0.063 | | 0.615 | 0.409 | 0.088 | 0.006 | 0.680 | 0.091 | 0.125 | 0.166 | | | | | |
| Malty | 0.967 | 0.587 | 0.988 | 0.895 | 0.363 | 0.940 | 0.692 | 0.924 | 0.716 | 0.716 | 0.801 | 0.852 | 0.570 | 0.494 | 0.540 | 0.564 | 0.988 | 0.329 | 0.530 | 0.801 | 0.615 | | 0.859 | 0.149 | 0.551 | 0.928 | 0.683 | 0.324 | 0.648 | | | | | |
| Cereal-like | 0.417 | 0.182 | 0.363 | 0.448 | 0.654 | 0.389 | 0.736 | 0.871 | 0.541 | 0.895 | 0.587 | 0.233 | 0.459 | 0.048 | 0.965 | 0.756 | 0.363 | 0.448 | 0.283 | 0.298 | 0.409 | 0.859 | | 0.090 | 0.415 | 0.819 | 0.112 | 0.727 | 0.515 | | | | | |
| Diacetyl (t) | 0.171 | 0.160 | 0.120 | 0.826 | 0.277 | 0.079 | 0.404 | 0.990 | 0.439 | 0.943 | 0.729 | 0.062 | 0.160 | 0.042 | 0.320 | 0.623 | 0.120 | 0.054 | 0.114 | 0.277 | 0.088 | 0.149 | 0.090 | | 0.197 | 0.532 | 0.104 | 0.665 | 0.656 | | | | | |
| Sweetness | 0.003 | 0.042 | 0.009 | 0.038 | 0.550 | 0.084 | 0.736 | 0.363 | 0.117 | 0.100 | 0.550 | 0.566 | 0.004 | 0.036 | 0.675 | 0.379 | 0.009 | 0.011 | 0.017 | 0.033 | 0.006 | 0.551 | 0.415 | 0.197 | | 0.399 | 0.016 | 0.058 | 0.115 | | | | | |
| Sour/Acid | 0.990 | 0.471 | 0.990 | 0.589 | 0.260 | 0.381 | 0.808 | 0.646 | 0.781 | 0.275 | 0.735 | 0.507 | 0.579 | 0.905 | 0.049 | 0.233 | 0.990 | 0.761 | 0.390 | 0.197 | 0.680 | 0.928 | 0.819 | 0.532 | 0.399 | | 0.922 | 0.040 | 0.10 | | | | | |
| Bitter | 0.013 | 0.161 | 0.032 | 0.313 | 0.410 | 0.041 | 0.794 | 0.743 | 0.041 | 0.483 | 0.449 | 0.379 | 0.016 | 0.027 | 0.989 | 0.617 | 0.032 | 0.122 | 0.139 | 0.104 | 0.091 | 0.683 | 0.112 | 0.104 | 0.016 | 0.922 | | 0.423 | 0.483 | | | | | |
| Body | 0.343 | 0.055 | 0.384 | 0.183 | 0.615 | 1.000 | 0.692 | 0.255 | 0.971 | 0.025 | 0.971 | 0.971 | 0.238 | 0.286 | 0.183 | 0.290 | 0.384 | 0.123 | 0.084 | 0.183 | 0.125 | 0.324 | 0.727 | 0.665 | 0.058 | 0.040 | 0.423 | | 0.021 | | | | | |
| Lingering aftertaste | 0.449 | 0.227 | 0.410 | 0.379 | 0.743 | 1.000 | 0.794 | 0.887 | 0.743 | 0.255 | 0.830 | 0.928 | 0.141 | 0.348 | 0.343 | 0.227 | 0.410 | 0.161 | 0.042 | 0.017 | 0.166 | 0.648 | 0.515 | 0.656 | 0.115 | 0.010 | 0.483 | 0.021 | | | | | | |