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| Table 1. Quantitative analysis of potassium bromate in bread across geopolitical zones in Nigeria | | | | | | | |
| Study | Study area | Geopolitical zone | Bread samples tested | Lowest bromate level (µg/g) | Highest bromate level (µg/g) | The method used for quantitative analysis | Add. |
| (20) | Port Harcourt | South-South | 10 | 0.12 ± 0.08 | 7.28 ± 2.14 | Spectrophotometry | R |
| (4) | Uyo | South-South | 4 | 6.66 ± 0.00 | 52.19 ± 0.00 | Congo red oxidation | R |
| (16) | Port Harcourt | South South | 30 | 0.01 ± 0.001 | 0.095 ± 0.024 | Redox Titration and Mohr’s methods | R |
| (3) | Lagos | South-West | 5 | 1.18 ± 0.01 | 2.26 ± 0.01 | HPLC and AAS | C |
| Lagos | South-West | 5 | 3.85 ± 0.01 | 11.13 ± 0.00 | HPLC and AAS | L |
| (8) | Ibadan | South-West | 30 | 1.24 ± 0.31 | 9.31 ± 0.43 | Spectrophotometry | R |
| (21) | Ile-Ife | South West | 9 | 2.05 ± 0.011 | 66.22 ± 0.014 | Spectrophotometry | B |
| (13) | Ogbomoso | South West | 25 | 0.02 ± 0.05 | 10.12 ± 1.53 | Spectrophotometry | R |
| (11) | Jalingo | North East | 20 | 2.51 ± 0.25 | 11.52 ± 0.10 | Spectrophotometry | R |
| (22) | Aba North | South-East | 13 | 0.42 ± 0.08 | 2.97 ± 0.18 | Spectrophotometry | R |
| Aba South | South-East | 10 | 0.40 ± 0.04 | 2.89 ± 0.25 | Spectrophotometry | R |
| Osisioma | South-East | 9 | 0.27 ± 0.04 | 2.99 ± 0.14 | Spectrophotometry | R |
| (12) | Enugu | South East | 23 | 1.16 ± 0.006 | 10.44 ± 0.003 | Colorimetry | R |
| (2) | Awka | South East | 10 | 5.31 ± 0.023 | 9.14 ± 0.024 | AOAC | R |
| (5) | Abuja | North Central | 18 | 2.46 ± 0.001 | 12.66 ± 0.003 | Spectrophotometry | R, N |
| Abuja | North Central | 8 | 1.01 ± 0.116 | 2.76 ± 0.031 | Spectrophotometry | R |
| (23) | Jos | North Central | 10 | 0.25 ± 0.008 | 4.38 ± 0.041 | Spectrophotometry | C |
| (1) | Nasarawa | North Central | 14 | 0.5 ± 0.05 | 8.4 ± 0.12 | Spectrophotometry | R |
| (14) | Birnin Kebbi | North West | 20 | 4.83 ± 0.075 | 11.77 ± 0.089 | Spectrophotometry | L, N |
| Birnin Kebbi | North West | 15 | 4.93 ± 0.04 | 8.07 ± 0.02 | Spectrophotometry | C, N |
| (24) | Kaduna | North West | 5 | 11.5 ± 0.03 | 12.10 ± 0.01 | Congo red and crystal violet method | R |
| (11) | Zaria | North West | 15 | 2.46 ± 0.35 | 13.60 ± 1.00 | Iodometric titration method | R |
| Bromate level in bread is presented as Mean ± standard deviation as obtained from each study.  Key: samples marked R – randomly purchased, B – labeled as bromate-free, N – labeled with NAFDAC registration number, C – Purchased from corporate bakeries (high-cost bread), L – Low price bread. | | | | | | | |