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| Fully automated laboratory systems (single tests) | | | |
|  | Products | Technology Overview | Assay type |
| Hycor Biomedical Inc. | HYTEC 288TM | 288 tests per run (>500 allergens available), random access analyzer | Automated solid phase, colorimetric (EIA) |
| NOVEOSTM | 150 allergens on board, 700-1200 tests per run, batch analyzer | Automated liquid phase, chemiluminescence (CLIA) |
| Siemens Healthineers | 3gAllergy™, IMMULITE™ 2000 XPi Immunoassay System | >450 allergen extracts incl. 60 allergen components. 200 tests/hour. Continuous random access analyzer. | Automated chemiluminescence immunoassay (CLIA) |
| Thermo Fisher Scientific | ImmunoCAP™, Phadia™ Laboratory Systems | >500 allergen extracts incl. >100 allergen components. From 60–240 tests/hour. Continuous random access and batch analyzers. | Automated fluorescence enzyme immunoassay (FEIA) |
| Microarray tests (molecular allergology) | | | |
| Macro Array Diagnostics GmbH | ALEX2 | Microarray-based assay based on bead technology. >120 allergen extracts and 170 allergen components. | Solid-phase immunoassay |
| Thermo Fisher Scientific | ImmunoCAP™ ISAC | Microarray-based immunoassay. Semi-quantitative assay for sIgE to 112 allergen components. | Fluorescence immunoassay (FIA) |
| Screening tests (molecular allergology) | | | |
| Thermo Fisher Scientific | Phadiatop™, Phadiatop Infant | Semi-quantitative assay for identifying atopic individuals. Mixtures of allergens for assaying in children and adults; and infants. | Automated FEIA |
| Euroimmun AG | Euroline Atopy Screen | 54 allergens per assay. Semi-quantitative. | EIA (line blot) |
| Allercoat 6 ELISA | 25 allergens per assay. Quantitative determination of sIgE. >600 allergens and allergen mixtures. | ELISA |
| Defined Partial Allergen Diagnostics (DPA-Dx) | 53 allergen components per assay. | EIA (line blot) |
| Hitachi Chemical Diagnostics | CLA Allergen-Specific IgE Assay | 36 allergens. 3 panels. Manual assay. | EIA (cellulose threads) |
| OPTIGEN Allergen-Specific IgE Assay | 36 allergens. 3 panels. Semi-automated assay. | EIA (multi-well) |
| LG Chem | AdvanSure AlloScreen | 20-31 allergens per panel. 5 panels. Semi-quantitative assay. | EIA (line blot) |
| Proteome Tech Inc. | PROTIA Allergy-Q | 134 allergens. Quantitative assay. | EIA (line blot) |
| R-Biopharm AG | RIDASCREEN Spec. IgE | 42 allergens. Semi-quantitative assay. Cellulose discs. | EIA (discs) |
| Biocheck GmbH | POLYCHECK | 6–30 allergens per panel/assay. 44 panels. | EIA (line blot) |
| HOB Biotech Group | BioLINE Allergy | 20 allergen per panel. 10 panels. Semi-quantitative assay. | EIA (line blot) |
| Immunodiagnostic Systems Holdings PLC | IDS Allergy | 60 allergens. Quantitative assay. | EIA |
| Immunolab GmbH | ImmunoLINE | 20 allergen per panel. 10 panels. Semi-quantitative assay. | EIA (line blot) |
| Arlington Scientific, Inc. | IVT Allergy 3 Screen | 10 allergens per panel. 8 panels. Qualitative assay. | EIA (line blot) |
| Mediwiss Analytic GmbH | AllergyScreen | 20 allergens per assay. Quantitative sIgE assay. | EIA (line blot) |
| AlleisaScreen | 30, 44 or 60 allergens per assay. Quantitative sIgE assay. | EIA (line blot) |
| Point of care | | | |
| Abionic SA | abioSCOPE | Total IgE and specific IgE to 5 perennial allergens. Results in 5 mins. | Nanofluidic technology |
| Bluejay Diagnostics | Allereye Tear Total IgE Test | Total IgE in tear fluid. Results within 10 minutes. | Strip format |
| DiaSys Diagnostic Systems GmbH | QDx Allerg | 12 allergens per test. Rapid semi-quantitative ELISA test. Results in 30 minutes. | ELISA |
| Diagn. Systeme & TechnologienGmbh | FastCheckPOC 20 | 20 allergens. Semiquantitative test. Results in 30 minutes. For capillary blood. | Lateral flow |
| Dr. Fooke Laboratorien GmbH | ALFA (Allergy Lateral Flow Assay) | 8 allergens. Qualitative test for whole blood, serum or plasma. Results in 20 minutes. | Lateral flow |
| Human GmbH | Hexagon IgE | Total IgE test for serum. Results in 15 minutes. | Lateral flow |
| Microtrace | MyCare kit | Tests for sIgE to dust mite, dog and cat. Results in 10 minutes. | Lateral flow |
| Novartis | Niji | Total IgE test using capillary blood. Results in 12 minutes. | Lateral flow |
| Omega Diagnostics Group PLC | Allergodip | 9 allergens per panel. Semi-quantitative test for serum or plasma. | EIA (dipstick) |
| Thermo Fisher Scientific | ImmunoCAP Rapid | 10 allergens. Semiquantitative test. Results within 20 minutes. Wheeze/rhinitis and asthma/rhinitis panels. | Lateral flow |

Suppl. Table 1