



DyonMed S.A.

Point of Care Solutions

Company's Profile

2017

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ISO 9001:2008 (No. 010110003) | ISO 13485:2003 (No 01210005)
by TÜV Austria Hellas

TÜV
AUSTRIA
HELLAS
AY86: 2004
ISO 9001:2008
ISO 13485:2003



Company



DyonMed was put together in early 2010 by a seasoned team of cumulative experience in managing pharmaceuticals as well as health-related services and of bio-pharmaceutical industry boasting many years. At DyonMed we intend to facilitate the improvement of medical services. We have introduced the

concept of “point of care” exclusively in Greece. Point of Care is an innovative, reliable and straightforward diagnostic platform that empowers physicians to make accurate decisions at the point of need. DyonMed will thus leave its mark in the healthcare sector of Greece and other nearby countries it operates in.

Our “point of care” diagnostic solutions assist medical professionals diagnose and answer key medical questions without delay, whether the patient is at the doctor’s office, in the emergency clinic of a remote island, or on the way to the emergency room.

Our operations are effected in and governed by a total quality approach. We seek and foster collaborations and co-operations, in the scientific sense of a “dyon” (meaning dipole in physics or two collaborators in practice).

We continuously seek to educate and train our collaborators while at the same time strive to support our clients. In doing so, we will achieve the best possible application/usage of our diagnostic devices by our clients, which will in turn maximize the benefit to patients and the community.

We tailor the communication of our point of care diagnostic devices to meet the demands of individual medical specialties, patient profiles and/or medical practices.

Point of Care



Point of Care is a relatively novel medical practice that has been gaining momentum in the developed countries over the last twenty years. Point of Care endows the healthcare professional to assess directly and reliably certain diagnostic variables of the patient at the point where such assessments are needed. Practicing Point of Care medicine does not require any special laboratory instrumentation other than using the devices themselves. Therefore Point of Care can be applied to any patient at any location and time point (e.g. at the practice, in the ambulance, on the field.).

Point of Care is literally a platform of diagnostic products that usually exploit the high affinity and specificity of the antibody-antigen reaction. All our Point of Care rapid diagnostic products have been approved by the US FDA, as well as the European Regulatory Authorities. Moreover, Point of Care products enjoy a prominent role in and diagnostic algorithms and therapeutic formularies of many developed countries. For example, the US Center of Disease Control and Prevention (CDC) or the UK National Institute of Clinical Excellence strongly supports the wide usage of Point of Care devices in medicine.

Applying Point of Care has revolutionized medical practice in the Western world leading to considerable savings in healthcare resources. Point of Care allows targeted diagnosis and treatment on three different levels.

Diagnosis

Point of Care facilitates rapid and reliable diagnosis of key markers.

Treatment Evaluation

Point of Care allows for patient or therapeutic treatment monitoring.



Prevention

Point of Care facilitates patient evaluation and monitoring of diagnostic markers that can help predict/prevent the development of malignant diseases like colorectal or prostate cancer.

Vision

Through the introduction of Point of Care, Dyonmed strives to catalyze amelioration of medical services thereby contributing to patients and to the community as a whole. Dyonmed will thus leave its mark in the healthcare sector of Greece and other nearby countries it operates in.

Point of Care allows targeted diagnosis and treatment on three different levels.

- Diagnosis
- Treatment Evaluation
- Prevention

Diagnosis & Treatment Evaluation

Gastroenterology

Helicobacter Pylori

Interventional Treatments:

- Detection of urease enzymatic activity in gastric biopsies

Non interventional treatments:

- Detection of helicobacter pylori through assay of human antibodies to the microbe in whole or fingerstick blood
- Detection of helicobacter pylori through assay of microbe antigens shed in human stool
- Assessment of a successful eradication therapy following management of h. pylori with antibiotics

Inflammatory Bowel Syndrome

- Differential diagnosis of celiac disease
- Differential diagnosis of inflammatory diseases

Inflammatory Diseases

- Assessment of specific marks of intestinal inflammation
- Assisting the evaluation of a potential relapse of inflammatory bowel diseases

Hepatitis B or C

- Secondary prevention of hepatocellular carcinoma following assay for α -fetoprotein

Infectious Diseases

- Confirmation of inflammation.
- Assisting the differential diagnosis between viral and microbial infections.
- Assaying a potential EBV infection.
- Confirmation of a streptococcal infection.
- Qualitative assay of key biochemical parameters in urine samples.

Pediatrics

- Detection of possible celiac disease in profiled patients
- Determination of causative factors regarding the development of gastroenteritis in pediatric and adult patients
- Confirmation of infection
- Assisting the differential diagnosis between viral and bacterial infections
- Assaying a potential EBV infection
- Confirmation of a streptococcal infection
- Qualitative assay of key biochemical parameters in urine samples
- Assisting differential diagnosis between bowel hypersensitivity and intolerance in babies

Cardiovascular Diseases

- Assaying for the presence of atherogenic factors.
- Exclusion of ischemic events in acute coronary syndromes.
- Exclusion of disseminated intravascular coagulation, deep venous thrombosis and pulmonary embolism.
- Assaying albumin levels in urine of diabetic patients.
- Integrated diagnosis of h. pylori in patients receiving anti-platelet treatment.

Primary Care & Secondary Prevention

- Assisting the prevention of the upper digestive system
- Assisting the prevention of colorectal cancer
- Prevention of prostate cancer
- Prevention of thyroid cancer
- Timely diagnosis of celiac disease
- Prevention of hepatocellular carcinoma

Prevention



Dyonmed and the healthcare professional break new grounds in establishing a direct and reliable diagnosis for the patient at the point of care and the point of need. Evaluating the course of treatment by means of suitable point of care devices complements the clinical evaluation by the medical professional, thereby awarding a patient with new choices.

While some professionals may be interested in performing prevention medicine in their practices, they often lack the means to do so. By providing with cutting edge Point of Care diagnostic tools to medical professionals, Dyonmed can now assist them to orient patients toward disease prevention. This orientation elevates the professional to a new level of patient management as opposed to standard practices of “combating the patient disease”.

Finally, as disease prevention costs are just a tiny fraction of disease treatment costs, medical practitioners applying Point of Care devices and services contribute strongly to the containment of total payer-borne healthcare costs, thus offering a great service to the society.



Products

Infectious Diseases

DyonCRP[®] C-reactive protein

- This product allows the medical professional to
 - Confirm an infection
 - Assess the magnitude / severity of an infection by means of three different cutoffs
 - Differentiate between viral and microbial infections.
- The DyonCRP[®] reads out in just 5 minutes. Its overall accuracy is 99% vs. ELISA.

DyonMono[®] Infectious Mononucleosis

- This product allows the medical professional to diagnose Epstein Barr (EBV)-dependent infectious mononucleosis in human capillary blood. Sensitivity & specificity: >99% vs. ELISA

DyonStrepA-strip[®] Group A Streptococcus Antigen

- This product allows the medical professional to detect / differentially diagnose Group A Streptococcus Antigen in throat swabs. Sensitivity & specificity: 99% vs. microbial culture.

DyonFluA/B/H1N1[®] Influenza A/B/H1N1

- This product allows the medical professional to detect / diagnose type A, B & A(H1N1) influenza viruses. The latter H1N1 strain is detected as a separate band in an overall accuracy of 82% vs. PCR detection.

DyonFlu A/H1N1[®] Influenza A/H1N1

- This product allows the medical professional to detect / diagnose type endemic A(H1N1) influenza.

DyonFlu A/B[®] Influenza A/B

- This product allows the medical professional to detect / diagnose type A and B influenza viruses. Each strain is detected as a separate band.

Gastroenterology

Helicobacter Pylori



DyonHpsA[®] H. pylori stool Ag

- A first in class product –it allows the medical professional to detect H. pylori antigen in stool at literally 100% accuracy versus histology / biopsy (sensitivity, specificity, negative prognostic value and positive prognostic value are all >99%).
 - Device performs regardless of the patient receiving or not proton pump inhibitors
 - Device allows the medical professional to evaluate eradication therapy already at 2 weeks post-antibiotic treatment

DyonHpAb[®] Simple H. pylori Ab- IgG

- This product allows the medical professional to rapidly and accurately detect IgG antibodies against H. pylori in human capillary blood drops.
 - As a POC class member, it performs at 93% accuracy vs. histology/biopsy.
 - High accuracy is due to usage of monoclonal antibodies



DyonHpAb[®] Double H. pylori Ab IgG , IgM

- This product allows the medical professional to rapidly and accurately detect IgG & IgM antibodies against H. pylori in human capillary blood drops.
 - As a POC class member, it performs at 93% accuracy vs. histology/biopsy.
 - High accuracy is due to usage of monoclonal antibodies
 - Specificity: 93%, Sensitivity: 97% vs. histology/biopsy.
 - Positive & Negative Predictive Value >95% vs. vs. histology/biopsy.

DyonHpAb[®] Triple H. pylori Ab IgG , IgM, IgA

- This product allows the medical professional to rapidly and accurately detect IgG, IgM & IgA antibodies against H. pylori in human capillary blood drops.
 - As a POC class member, it performs at 93% accuracy vs. histology/biopsy.
 - High accuracy is due to usage of monoclonal antibodies
 - Specificity: 93%, Sensitivity: 97% vs. histology/biopsy.
 - Positive & Negative Predictive Value >95% vs. histology/biopsy

HelicotecUT[®] Test CLO Gel

- This product detects the enzymatic activity of the H. Pylori urease enzyme in gastric mucosal biopsy samples.
 - a 100% negative result is confirmed at 24h
 - Specificity: 93%, Sensitivity: 99%

HelicotecUT[®] Plus Test CLO Paper

- This product detects the enzymatic activity of the H. Pylori urease enzyme in gastric mucosal biopsy samples.
 - a 100% negative result is confirmed in just 1h
 - Specificity: 93%, Sensitivity: 99%

Inflammatory Bowel Syndrome

Xeliac[®] Test Pro

- This product detects of IgA and IgG antibodies against tissue transglutaminase in a drop of capillary blood.
 - Device allows to exclude or confirm Celiac disease
 - Specificity: 97%, Sensitivity: 97%

DyonCombo[®] Calprotectin-Lactoferrin

- The device allows the medical professional to detect human stool calprotectin and lactoferrin, two specific markers of inflammatory bowel disease.

Inflammatory Diseases

DyonCalpro[®] Calprotectin

- The device allows the medical professional to detect human stool calprotectin, a marker of inflammatory bowel disease.
 - The two different cutoffs help assess the severity of the disease or possible disease relapses.

DyonLacto[®] Lactoferrin

- The device allows the medical professional to detect human stool lactoferrin, a marker of inflammatory bowel disease, in just five minutes.
 - Sensitivity>94%, Specificity >93%

DyoniFOB[®] Immunological Fecal Occult Blood

- This product allows the medical professional to rapidly and accurately detect human hemoglobin in stool samples.
 - Specificity & Sensitivity: 99% vs. ELISA.
 - Positive & Negative Predictive Value >97%
 - High accuracy is due to usage of monoclonal antibodies
 - Independent of patient diet (case of chemical based tests liker Meyer)

DyonIFOB - Combo T[®] Immunological Fecal Occult -Blood & Transferrin

- This product allows the medical professional to rapidly and accurately detect human hemoglobin and transferrin in stool samples.
 - High accuracy is due to usage of monoclonal antibodies
 - Independent of patient diet (case of chemical based tests liker Meyer)
 - Transferrin diagnosis may indicate the localization of possible blood loss in the gastrointestinal tract.

DyonIFOB & Haptoglobin

- This product allows the medical professional to rapidly and accurately detect human hemoglobin and haptoglobin in stool samples.
 - High accuracy is due to usage of monoclonal antibodies
 - Independent of patient diet (case of chemical based tests liker Meyer)
 - Transferrin diagnosis may indicate the localization of possible blood loss in the gastrointestinal tract.

DyonCRP[®] C-reactive protein

- This product allows the medical professional to
 - Confirm an infection
 - Assess the magnitude / severity of an infection by means of three different cutoffs
 - Differentiate between viral and microbial infections.

Hepatitis B & C

DyonAFP[®] α - fetoprotein, 10

- This product allows for prevention of hepatocellular carcinoma in patients with Hepatitis B or C
 - Specificity & Sensitivity: 99% vs. ELISA.

Pediatrics

DyonRota-Adeno[®] Rotavirus-Adenovirus

- This product allows the medical professional to rapidly and accurately detect Rota virus – Adenovirus in stool samples of babies and children with gastroenteritis. Each virus is detected as a separate band.

DyonMono[®] Infectious Mononucleosis

- This product allows the medical professional to diagnose Epstein Barr (EBV)-dependent infectious mononucleosis in human capillary blood. Sensitivity & specificity: >99% vs. ELISA

DyonStrepA-strip[®] Group A Streptococcus Antigen

- This product allows the medical professional to detect / differentially diagnose Group A Streptococcus Antigen in throat swabs. Sensitivity & specificity: 99% vs. microbial culture.

DyonIFOB[®] Immunological Fecal Occult Blood

- This product allows the medical professional to rapidly and accurately detect human hemoglobin in stool samples.
 - Specificity & Sensitivity: 99% vs. ELISA.
 - Positive & Negative Predictive Value >97%
 - High accuracy is due to usage of monoclonal antibodies
 - Independent of patient diet (case of chemical based tests liker Meyer)

Cardiovascular Diseases

DyonTroponin[®] Troponin I/T

- This product allows the medical professional to diagnose troponin I in human whole blood. Sensitivity & specificity: >99% vs. ELISA

DyonMicroalbumin[®] Microalbumin

- This product allows the medical professional to detect microalbumin in human urine.



DyonDimer[®] D – Dimer

- This product allows the medical professional to diagnose D-Dimer in human capillary blood drops of select patient profiles. Sensitivity & specificity: >99%vs. ELISA.

DyonTroponin POC[®] Cardiac Troponin

- This product allows the medical professional to diagnose troponin I in human capillary blood drops. Sensitivity & specificity: >99% vs. ELISA. Low detection level.

DyonCardiac 3 in 1[®] Cardiac Troponin, Myoglobin, CK-MB

- This product allows the medical professional to diagnose Troponin, Myoglobin, CK-MB in human whole blood. Each enzyme is detected as a separate band thereby facilitating the detection of the sequence of events that may lead to a heart infarct. Sensitivity & specificity: >99% vs. ELISA.

Primary Care & Secondary Prevention

DyonBTA[®] Bladder Tissue Antigen

- This product allows the medical professional to detect Bladder Tissue Antigen in human urine. BTA is implicated in the diagnosis and prevention of bladder cancer as per current medical oncology guidelines.

DyonAFP[®] α-fetoprotein

- This product allows for prevention of hepatocellular carcinoma in patients with Hepatitis B or C. Specificity & Sensitivity: 99% vs. ELISA.

DyonPSA[®] Prostate Specific Antigen

- This product allows the medical professional to detect PSA in capillary blood drops. PSA is implicated in the diagnosis and prevention of colorectal cancer as per current medical oncology guidelines.

Xeliac[®] Test Pro Anti- tTG IgA – IgG

- This product detects of IgA and IgG antibodies against tissue transglutaminase in a drop of capillary blood.
 - Device allows to exclude or confirm Celiac disease, which is important in disease management and prevention
 - Specificity: 97%, Sensitivity: 97%.

DyonHpAb[®] Double H. pylori Ab IgG, IgM

- This product allows the medical professional to rapidly and accurately detect IgG & IgM antibodies against H. pylori in human capillary blood drops.
 - As a POC class member, it performs at 93% accuracy vs. histology/biopsy.
 - High accuracy is due to usage of monoclonal antibodies
 - Specificity: 93%, Sensitivity: 97% vs. histology/biopsy.
 - Positive & Negative Predictive Value >95% vs. vs. histology/biopsy.

Export Division

FEM - Gynecology

DyonhCG[®] Pregnancy Urine sensitivity 10m/U

- Cassette - Pregnancy test from 1st day.

DyonCandida[®]

- Cassette - Candida detection.

DyonLH[®] Ovulation Urine/self-test

- Cassette - Definition of ovulation day.

DyonUTI[®] stick

- Cassette - Detection of Gynecological infections.



DyonStrep B[®]

- Cassette - Detection of Strep B infection.

DyonTrichomonus[®]

- Cassette - Specific detection of Trichomonus.

DyonFem[®] Lab

- Cassette - Multi panel of basic gynecological infections.

Drugs - Control

DyonMultiDrugs[®] -10 Test Panel

- Cassette - Drugs Detection of 10 narcotic Substances.

DyonAlcohol[®]

- Strip - Detection of Alcohol usage.

Specific Infections

DyonMalaria[®] Whole Blood (PF)

- Cassette - Detection of Malaria Pf.

DyonMalaria[®] Whole Blood Combo

- Strip - Detection of Malaria.

DyonCRP[®]

- Strip - Semi quantitative determination of CRP.

DyonH. Pylori[®] Saliva-urease

- Strip – H. Pylori determination in saliva.

DyonH. Pylori[®] Saliva-urease

- Cassette – H. Pylori determination in saliva.

DyonSyphilis[®] Serum/whole Blood

- Cassette - Rapid Syphilis determination with high accuracy.

DyonHIV[®] /1&2

- Cassette - HIV determination in finger-stick.

DyonHbsAb[®]

- Cassette - Determination of Abs of Hepatitis B.

DyonDengue IgG[®]

- Cassette - Determination of dengue virus infection.

DyonE.coli[®]

- Cassette - Determination of e-coli infection.

DyonListeria[®]

- Cassette – Determination of Listeria infection.

DyonSalmonella[®]

- Cassette – Determination of Salmonella infection.

DyonTB[®] combo whole Blood test

- Cassette - Determination of TB disease.



DyonRotavirus®

- Cassette - Determination in fecal of Rotavirus.

DyonAdenovirus®

- Cassette - Determination in fecal of Adenovirus.

Cardiovascular Diseases

DyonTroponin® whole blood/serum

- Cassette - Cardiac market Determination of Troponin I.

Allergy

DyonIgE® whole blood

- Cassette - Determination of IgE Immunoglobulin E.

Anemia Management

DyonIfoFecal® Occult Blood (with specimen sticks & envelopes)

- Strip - Determination of Hb in fecal samples.

DyonRF® Serum/whole blood

- Cassette - Determination of Rheumatoid.

DyonFerritin® whole blood/serum

- Cassette - Determination of Anemia by Ferritin detection.

Strategic Alliances

The first part of the name Dyonmed or “dyon” refers to a high energy particle that transfers energy evenly between its two poles.



Strategic Alliances enjoy a prominent position in our philosophy. Both the medical professional and the patient are our allies. The “dyon” approach is all about sharing the need for improved patient care. Dyonmed offers solutions facilitating treatment evaluation and disease prevention.

Our strategic alliances with foreign companies producing cutting edge Point of Care products is equally important. These allies entrust us with the marketing, distribution and growth of their products aimed at a maximized product life cycle. To achieve this ambitious goal, Dyonmed needs to put forward an innovative and ground-breaking value proposition in the market such that tangible value is transferred to all our stakeholders in a concerted fashion. Our allied companies are the logical extension of our business practices and our corporate values. Together with our allies we seek new opportunities, embrace novel approaches and translate corporate vision into operational practice.

